

FACE PROTECTION .....	2
HAND PROTECTION .....	14
PROTECTIVE CLOTHING .....	16

The selection and provision of Personal Protective Equipment (PPE) is one of the main duties of the employer on the basis of occupational health and safety legislation. In Europe, this PPE must comply with the European **PPE Regulation**. If the PPE is to provide protection against fatal and serious injuries, PPE certified by an accredited certification institute must be used.

When testing personal protective equipment against the thermal hazards of the Arc Flash (Arc Flash PPE), two internationally recognised test methods can currently be used:

- IEC/EN 61482-1-1 (Open Arc Test)
- IEC/EN 61482-1-2 (Box Test).

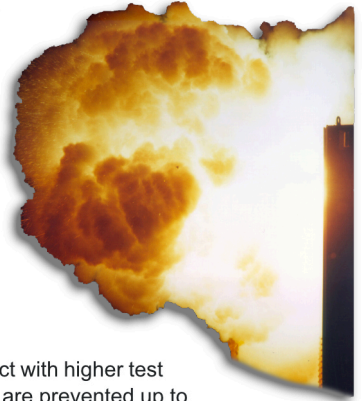
The **Open Arc Test** was developed in North America. It is used to determine a material characteristic value. This **ATPV** value (or EBT or ELIM) stands for a thermal impact energy in cal/cm<sup>2</sup> up to which the PPE protects against 2nd degree burns. The ATPV values are grouped into different risk classes (HRC/ARC) in the NFPA 70E application guideline.

The **Box Test** procedure includes the protection classes

- **APC 1** (protection class 1, test level 168 kJ) and
- **APC 2** (protection class 2, test level 320 kJ).

In addition, we have developed Arc Flash PPE, which achieves a significantly higher protective effect with higher test levels of up to **630 kJ**. PPE successfully tested in the box test also ensures that 2nd degree burns are prevented up to the protection level of the Arc Flash PPE in question.










The relevant **regulations and standards** are listed below:



Standards group		ANSI/ASTM	IEC/EN/Europe	Germany
Declaration of conformity			Regulation (EU) 2016/425	Regulation (EU) 2016/425
Basis for selection of Arc Flash PPE		NFPA 70E IEEE 1584	DGUV Information 203-077 IEEE 1584	DGUV Information 203-077
Product standards	Fabric/Clothing	ASTM F1959 ASTM F1506	IEC/EN 61482-1-1 IEC/EN 61482-1-2 IEC/EN 61482-2	DIN EN IEC 61482-1-1 DIN EN 61482-1-2 DIN EN 61482-2
	Face Protection	ASTM F2178 ANSI/ISEA Z87.1	DGUV GS-ET 29 DIN EN 166	DGUV GS-ET 29 DIN EN 166
	Gloves	ASTM F 2675	in accordance to IEC/EN 61482-1-2	DGUV GS-ET 42



In addition to pure arc fault protection, our Arc Flash PPE is certified according to a number of **other standards**. The following pictograms provide a quick overview:

 APC x xx kJ xx cal/cm <sup>2</sup>	 Class xx							
Arc Flash PPE Additional info: Protection class Box-Test test level ATPV/EBT/ELIM	Insulating PPE Additional info: Insulating class/ Voltage level	Welding protection	Heat protec- tion/flame protection	Antistatic	Chemical protection	High-visibility clothing	Rain protection	Protection against mechanical risks
IEC/EN 61482-1-1 IEC/EN 61482-1-2 IEC/EN 61482-2 DGVV GS-ET 29 DGVV GS-ET 42 ASTM F 1959 ASTM F2675 ASTM F2178	EN 50365 EN 60903 EN 50286	DIN EN ISO 11611	DIN EN ISO 11612 DIN EN 407	DIN EN 1149-5	DIN EN 13034	DIN EN ISO 20471	DIN EN 343	DIN EN 388

Our consulting team will also be happy to advise you on the **selection of the correct Arc Flash PPE**. Within the scope of an arc fault study, we can determine the occurring arc energies in your network and develop an **individual PPE concept** together with you. We can also support you in preparing the risk assessment and operating guidelines. Do not hesitate to contact us!

### BSD arc calculator software

You don't know which PPE to choose for your employees? Is APC 2 sufficient for all workplaces? At which locations is the potential arc energy highest? And where is it actually lowest? The BSD arc flash software provides answers to such questions. It helps you calculate the arc energy at your workplaces and thus provides a solid basis for the right selection of PPE. The calculation is based on the Boxtest method. Contact us for a free demonstration

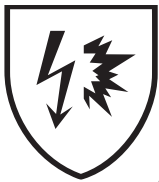
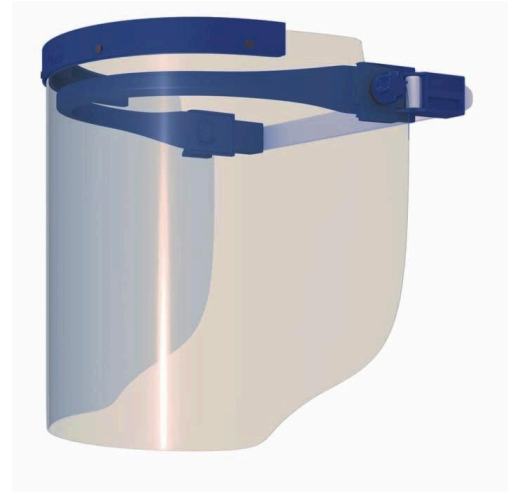


Description	Item No.
BSD arc calculator	4999999

# Face protection

## arc flash face shield "ErgoS-Basis", APC 1

- arc flash tested according to DGUV GS-ET-29, APC 1 (class 1)
- EN 166, "personal eye-protection requirement"
- true color visor (color rendering index >95%)
- universal mount fits standard electrician's helmets
- slot-bracket suitable for helmets with 30 mm Euro-slots
- mounting systems for other helmets on request
- guaranteed protective properties and service life up to 10 years

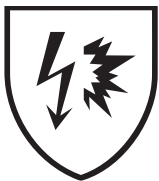
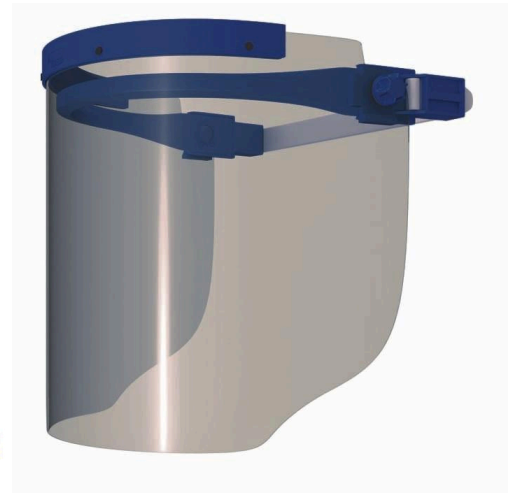


APC 1

Description	Item No.
face shield ErgoS-Basic, APC 1, universal-bracket	7406800
face shield ErgoS-Basic, APC 1, EU-slot-bracket	7406810
Anti-fog spray 30 ml bottle	7406601

## arc flash face shield "ErgoS- Basis Plus" HRC 2, 10 cal/cm<sup>2</sup>

- arc flash tested according to ASTM F2178, ATPV: 10 cal/cm<sup>2</sup>
- EN 166, "personal eye-protection requirement"
- ANSI / ISEA Z87.1 - 2010
- true color visor, through not tinted visor > 95%
- universal-bracket matching on common electrician hard hats
- slot-bracket suitable for all hard hats with 30 mm Euro-slots
- brackets for other hard hats on request

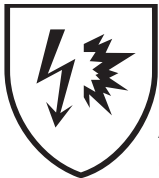


10 cal/cm<sup>2</sup>

Description	Item No.
Face shield ErgoS-Basic Plus, HRC 2, 10 cal/cm <sup>2</sup> , universal-bracket	7406801
Face shield ErgoS-Basic Plus, HRC 2, 10 cal/cm <sup>2</sup> , EU-slot-bracket	7406811
Anti-fog spray 30 ml bottle	7406601

## arc flash face shield "ErgoS", HRC 1, 7.0 cal/cm<sup>2</sup>

- tested for accidental arcing according to DGUV GS-ET-29, APC 2 (class 2)
- additionally tested for accidental arcing according to ASTM F2178, ATPV: 7.0 cal/cm<sup>2</sup>
- EN 166 "Personal eye protection"
- Clear colour rendering (colour rendering index >95 %)
- Universal mount fits standard electrician's helmets
- Slot attachment suitable for helmets with 30 mm Euro slot
- Mounting systems for other helmets on request
- Anti-fog spray included
- Guaranteed protective properties and service life up to 10 years

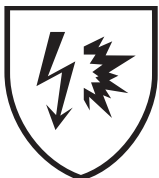


**APC 2**  
**7.0 cal/cm<sup>2</sup>**

Description	Item No.
face shield ErgoS, class 2, HRC 1, 7.0 cal/cm <sup>2</sup> , universal-bracket	7406000
face shield ErgoS, class 2, HRC 1, 7.0 cal/cm <sup>2</sup> , EU-slot-bracket	7406010
Anti-fog spray 30 ml bottle	7406601

## arc flash face shield "ErgoS 3", APC 2

- face shield ErgoS 3 is the latest generation of the ErgoS model, lightweight, improved weight balance and improved ergonomics at the neck area
- arc tested according to DGUV GS-ET-29, APC 2 (class 2)
- EN 166 "personal eye protection"
- clear color rendering (color rendering index > 95 %)
- weight: 350g / 400g (slot/universal)
- universal mount fits standard electrician's helmets
- slot attachment suitable for helmets with 30 mm Euro slot
- slot attachment suitable for Petzl and 3M helmets (model G3501)
- mounting systems for other helmets on request
- anti-fog spray included
- guaranteed protective properties and service life up to 10 years

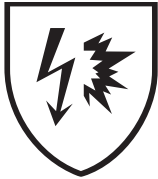


**APC 2**

Description	Item No.
face shield ErgoS 3, APC 2, universal-bracket	7407310
face shield ErgoS 3, APC 2, EU-Slot-bracket	7407320
face shield ErgoS 3, APC 2, US-Slot-bracket	7407330
face shield ErgoS 3, APC 2, Petzl / 3M -bracket	7407340
Anti-fog spray 30 ml bottle	7406601

## arc flash face shield "ErgoS 3Plus" APC 2, HRC 2, 12 cal/cm<sup>2</sup>

- face shield ErgoS 3 is the latest generation of the ErgoS model, lightweight, improved weight balance and improved ergonomics at the neck area
- arc tested according to DGUV GS-ET-29, APC 2 (class 2)
- additionally arc tested according to ASTM F2178, ATPV: 12 cal/cm<sup>2</sup>, HRC 2
- EN 166 "personal eye protection"
- ANSI / ISEA Z87.1
- CSA Z94.3
- clear color rendering (color rendering index > 95 %)
- weight: 350g / 400g (slot/universal)
- universal mount fits standard electrician's helmets
- slot attachment suitable for helmets with 30 mm Euro slot
- slot attachment suitable for Petzl and 3M helmets (model G3501)
- mounting systems for other helmets on request
- anti-fog spray included
- guaranteed protective properties and service life up to 10 years

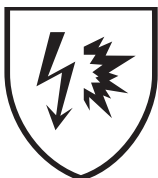


**APC 2**  
**12 cal/cm<sup>2</sup>**

Description	Item No.
face shield ErgoS 3Plus, APC 2, HRC 2, 12 cal/cm <sup>2</sup> , universal-bracket	7407410
face shield ErgoS 3Plus, APC 2, HRC 2, 12 cal/cm <sup>2</sup> , EU-Slot-bracket	7407420
face shield ErgoS 3Plus, APC 2, HRC 2, 12 cal/cm <sup>2</sup> , US-Slot-bracket	7407430
face shield ErgoS 3Plus, APC 2, HRC 2, 12 cal/cm <sup>2</sup> , Petzl / 3M -bracket	7407440
Anti-fog spray 30 ml bottle	7406601

## arc flash face shield "ErgoS 3Power", HRC 3, 27 cal/cm<sup>2</sup>

- face shield ErgoS 3 is the latest generation of the ErgoS model, lightweight, improved weight balance and improved ergonomics at the neck area
- arc tested according to DGUV GS-ET-29, APC 2 (class 2)
- additionally arc tested according to ASTM F2178, ATPV: 27 cal/cm<sup>2</sup>, HRC 3
- EN 166 "personal eye protection"
- ANSI / ISEA Z87.1
- CSA Z94.3
- clear color rendering (color rendering index > 95 %)
- weight: 350g / 400g (slot/universal)
- universal mount fits standard electrician's helmets
- slot attachment suitable for helmets with 30 mm Euro slot
- slot attachment suitable for Petzl and 3M helmets (model G3501)
- mounting systems for other helmets on request
- anti-fog spray included
- guaranteed protective properties and service life up to 10 years

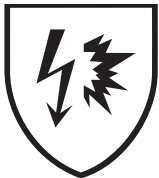


**APC 2**  
**27 cal/cm<sup>2</sup>**

Description	Item No.
face shield ErgoS 3Power, APC 2, HRC 3, 27 cal/cm <sup>2</sup> , universal-bracket	7407510
face shield ErgoS 3Power, APC 2, HRC 3, 27 cal/cm <sup>2</sup> , EU-Slot-bracket	7407520
face shield ErgoS 3Power, APC 2, HRC 3, 27 cal/cm <sup>2</sup> , US-Slot-bracket	7407530
face shield ErgoS 3Power, APC 2, HRC 3, 27 cal/cm <sup>2</sup> , Petzl / 3M -bracket	7407540
Anti-fog spray 30 ml bottle	7406601

## arc flash balaclava, 34 cal/cm<sup>2</sup>

- arc flash tested according to ASTM F1959, ATPV: 34 cal/cm<sup>2</sup>
- for wearing under face shields
- for a higher arc flash protection of the head
- double layer fabric: 7.8 oz/lyd<sup>2</sup>
- univereal-size
- color: darkblue



**34 cal/cm<sup>2</sup>**

Description	Item No.
Balaclava, 34 cal/cm <sup>2</sup>	7406480

## electrician hard hat

- thermoplastic hard hat
- straight hard hat shell with rain-gutter
- extreme lateral rigidity
- side mounting option. e.g. for helmet lamp
- available in yellow, white and red
- 1000 V AC
- wear life 4 years
- DIN EN 50365
- with rotatable fastener for individual size adjustment
- at request your company emblem can be applied on the hard hat



**Class 0**

Description	Item No.
electrician hard hat yellow 1000 V	7404000
electrician hard hat white 1000 V	7404001
electrician hard hat red 1000 V	7404002

## chin straps

- fitting to electrician helmet 7 404 000, -001, -002
- out of textile band with comfortable snap closing
- as 2 or 4-point construction



Description	Item No.
chin straps, with 2-point fastener	7490000
chin strap 20 mm black with 4-point fastener	7491001

## hard hat lamp

- high-power LED-light out of shock resistant and waterproof case
- 3 watt Cree-LED, ca. 7000 Kelvin colour temperature
- up to 150 m light range
- very long service life



Description	Item No.
LED hard hat lamp with bracket, PetaLux	7404100
Power LED helmet lamp with bracket, for ATEX zone 1	7404200

## Protection helmet for working at height and rescue

- helmet for height working and rescue
- according to EN 397
- ANSI Z 89.1 - 2009 Type I, Class E
- EN 50365
- 1000 V AC
- protection against collisions and hits
- safe fit via chin bar
- protection against splashes of molten metal
- size: 53 - 63 cm
- weight: 490 g



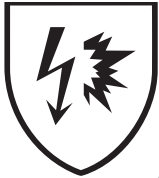
**Class 0**

Description	Item No.
helmet for height working / rescue, Vertex best ANSI Z 89.1-2009, white	4701900
helmet for height working / rescue, Vertex best ANSI Z 89.1-2009, yellow	4701901
helmet for height working / rescue, Vertex best ANSI Z 89.1-2009, orange	4701902
helmet for height working / rescue, Vertex best ANSI Z 89.1-2009, red	4701903
helmet for height working / rescue, Vertex best ANSI Z 89.1-2009, black	4701904

## arc flash face shield "ErgoS-Intec Basis", APC 1

Electrician face shield with integrated visor. The visor can be pushed in the helmet when not in use.

- arc flash tested according to DGUV GS-ET-29, APC 1 (class 1)
- visor EN 166, "personal eye protection"
- helmet EN 397, EN 50365 (Class 0), ANSI/ISEA Z89.1-2014
- helmet with reflective stripes
- visor has anti-fog protection
- available accessories: hearing protection, headlamp



APC 1



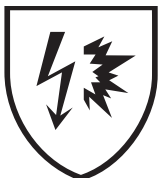
Class 0

Description	Item No.
face shield Ergos-Intec Basis integrated in helmet, APC 1	7406440
headlamp for face shield ErgoS-Intec	7406414
ear protection for face shield ErgoS-Intec	7406413
sweatband in front for face shield ErgoS-Intec	7406406
sweatband behind for face shield ErgoS-Intec	7406407
helmet strap complete for face shield ErgoS-Intec	7406408
chinstrap for face shield ErgoS-Intec	7406409

## arc flash face shield "ErgoS-Intec", APC 2

Electrician face shield with integrated visor and the Real View Technology by BSD. The Visor can be pushed into the hard hat when not in use.

- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- visor EN 166, EN 170 and ANSI/ISEA Z87.1
- hard hat EN 397, EN 50365 (class 0) and ANSI/ISEA Z89.1
- Real View Technology by BSD
- color reproduction index > 95 %, visor has no aging
- permanent anti-fog protection
- available accessory: ear-defender, hard hat lamp



APC 2



Class 0



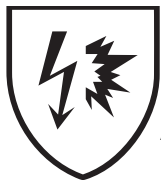
Description	Item No.
face shield ErgoS-Intec integrated in helmet, APC 2	7406400
headlamp for face shield ErgoS-Intec	7406414
ear protection for face shield ErgoS-Intec	7406413
sweatband in front for face shield ErgoS-Intec	7406406
sweatband behind for face shield ErgoS-Intec	7406407
helmet strap complete for face shield ErgoS-Intec	7406408
chinstrap for face shield ErgoS-Intec	7406409



## arc flash face shield "ErgoS-Intec plus", APC 2, HRC 2, 14 cal/cm<sup>2</sup>

Electrician face shield with integrated visor and the Real View Technology by BSD. The visor can be pushed into the hard hat when not in use.

- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- arc flash tested according to ASTM F2178, 14 cal/cm<sup>2</sup>
- visor EN 166, EN 170 and ANSI/ISEA Z87.1
- hard hat EN 397, EN 50365 (class 0) and ANSI/ISEA Z89.1
- Real View Technology by BSD
- color reproduction index > 95 %, visor has no aging
- permanent anti-fog protection
- available accessory: ear-defender, hard hat lamp



APC 2

14 cal/cm<sup>2</sup>



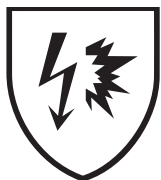
Class 0

Description	Item No.
face shield ErgoS-Intec plus integrated in helmet, APC 2, HRC 2, 14 cal/cm <sup>2</sup>	7406401
headlamp for face shield ErgoS-Intec	7406414
ear protection for face shield ErgoS-Intec	7406413
sweatband in front for face shield ErgoS-Intec	7406406
sweatband behind for face shield ErgoS-Intec	7406407
helmet strap complete for face shield ErgoS-Intec	7406408
chinstrap for face shield ErgoS-Intec	7406409

## arc flash face shield "ErgoS-Intec power", HRC 3, 28 cal/cm<sup>2</sup>

Electrician face shield with integrated visor and the Real View Technology by BSD. The visor can be pushed into the hard hat when not in use.

- arc flash tested according to ASTM F2178, 28 cal/cm<sup>2</sup>
- visor EN 166, EN 170 and ANSI/ISEA Z87.1
- hard hat EN 397, EN 50365 (class 0) and ANSI/ISEA Z89.1
- Real View Technology by BSD
- color reproduction index > 95 %, visor has no aging
- permanent anti-fog protection
- available accessory: ear-defender, hard hat lamp



28 cal/cm<sup>2</sup>



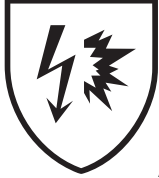
Class 0

Description	Item No.
ErgoS-Intec power integrated in helmet, HRC 3, 28 cal/cm <sup>2</sup>	7406501
headlamp for face shield ErgoS-Intec	7406414
ear protection for face shield ErgoS-Intec	7406413
sweatband in front for face shield ErgoS-Intec	7406406
sweatband behind for face shield ErgoS-Intec	7406407
helmet strap complete for face shield ErgoS-Intec	7406408
chinstrap for face shield ErgoS-Intec	7406409

## arc flash hood, APC 1

The arc flash hood permits the user to work at live parts or in the vicinity of live parts without requirements for head protection (falling objects).

- arc flash tested according to DGUV GS-ET-29, APC 1 (class 1)
- EN 166, "Personal eye protection"
- true color visor
- color royal/navy blue
- classification on visor
- universal-size



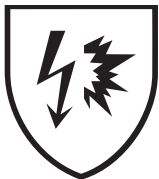
**APC 1**

Description	Item No.
arc protection hood, APC 1	7406900
storage-bag for BSD arc protection hood	7406950

## arc flash hood, APC 2

The arc flash hood permits the user to work at live parts or in the vicinity of live parts without requirements for head protection (falling objects).

- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- EN 166, "personal eye protection"
- true color visor
- color royal/navy blue
- classification on visor
- universal-size



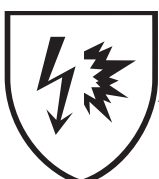
**APC 2**

Description	Item No.
arc protection hood, APC 2	7406910
storage-bag for BSD arc protection hood	7406950

## arc flash hood plus, APC 2, HRC 2, 14 cal/cm<sup>2</sup>

The arc flash hood permits the user to work at live parts or in the vicinity of live parts without requirements for head protection (falling objects).

- arc flash tested according to ASTM F2178, ATPV: 14 cal/cm<sup>2</sup>
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level  $W_{LBP} = 395$  kJ
- EN 166, "personal eye protection"
- back of the head is protected against thermal dangers of an electric arc through embedded neck protection
- true color visor
- color royal/navy blue
- classification on visor
- universal-size



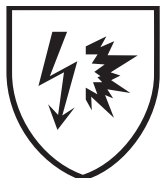
**APC 2**  
**395 kJ**  
**14 cal/cm<sup>2</sup>**

Description	Item No.
arc flash hood plus, APC 2, HRC 2, 14 cal/cm <sup>2</sup> with neck guard	7406960
storage-bag for BSD arc protection hood	7406950

## arc flash hood plus, APC 2, HRC 3, 25 cal/cm<sup>2</sup>

The arc flash hood permits the user to work at live parts or in the vicinity of live parts without requirements for head protection (falling objects).

- arc flash tested according to ASTM F2178, ATPV: 25 cal/cm<sup>2</sup>
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional arc flash tested with a higher test level  $W_{LBP} = 630 \text{ kJ}$
- EN 166 "personal eye protection"
- back of the head is protected against thermal dangers of an electric arc through embedded neck protection
- true color visor
- color royal/navy blue
- classification on visor
- universal-size



**APC 2**  
**630 kJ**  
**25 cal/cm<sup>2</sup>**

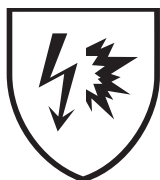


Description	Item No.
arc flash hood plus, APC 2, HRC 3, 25 cal/cm <sup>2</sup> with neck guard	7406970
storage-bag for BSD arc protection hood	7406950

## arc flash hood "Classic" HRC 2, 13 cal/cm<sup>2</sup>

The arc flash hood permits the user to work at live parts or in the vicinity of live parts.

- arc flash tested according to ASTM F2178, ATPV: 13 cal/cm<sup>2</sup>
- also tested according to ASTM F1506, CSA Z462, OSHA 1910.269
- true color visor
- for the highest arc flash protection
- fabric double layer, 350 g/m<sup>2</sup> (10 oz.yd<sup>2</sup>) per layer: cotton, antistatic
- color navyblue
- universal-size



**13 cal/cm<sup>2</sup>**

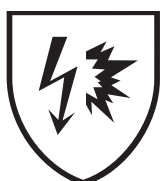


Description	Item No.
arc flash hood HRC 2, 13 cal/cm <sup>2</sup>	7406990

## arc flash hood "Classic" HRC 3, 28 cal/cm<sup>2</sup>

The arc flash BSD Hood permits the user to work at live parts or in the vicinity of live parts.

- arc flash tested according to ASTM F2178, ATPV: 28.0 cal/cm<sup>2</sup>
- also certificared to ASTM F1506, CSA Z462, OSHA 1910.269
- true color visor
- with integrated hard hat and bracket
- fabric double layer, 350 g/m<sup>2</sup> (10 oz.yd<sup>2</sup>) per Layer: cotton, antistatic
- color navyblue
- universal-size



**28 cal/cm<sup>2</sup>**

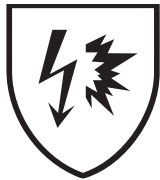


Description	Item No.
arc flash hood HRC 3, 28 cal/cm <sup>2</sup>	7406985

### arc flash hood, APC 2, HRC 4, 47 cal/cm<sup>2</sup>

The arc flash hood permits the user to work at live parts or in the vicinity of live parts.

- arc flash tested according to ASTM F2178, ATPV: 47 cal/cm<sup>2</sup>
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level  $W_{LBP} = 630$  kJ
- also certificated according to ASTM F1506, CSA Z462, OSHA 1910.269
- true color visor
- for the highest arc flash protection
- with integrated hard hat and bracket
- fabric double layer, 350 g/m<sup>2</sup> (10 oz.yd<sup>2</sup>) per layer: cotton, antistatic
- color navyblue
- universal-size



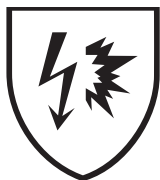
**APC 2**  
**630 kJ**  
**47 cal/cm<sup>2</sup>**

Description	Item No.
arc flash hood HRC 4, APC 2, 47 cal/cm <sup>2</sup>	7406996

### arc flash hood, APC 2, HRC 4, 47 cal/cm<sup>2</sup>, with ventilation system

The arc flash hood permits the user to work at live parts or in the vicinity of live parts.

- arc flash tested according to ASTM F2178, ATPV: 47 cal/cm<sup>2</sup>
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level  $W_{LBP} = 630$  kJ
- also certificated according to ASTM F1506, CSA Z462, OSHA 1910.269
- true color visor
- visor has no aging
- approved for live working
- for the highest arc flash protection
- fabric double layer, 350 g/m<sup>2</sup> (10 oz/yd<sup>2</sup>) per layer: cotton, antistatic
- with integrated hard hat, ANSI / ISEA Z89.1-2009 Type 1 Class E, and EU-Slot-bracket
- with ventilation system for a air circulation inside the hood
- supply unit with belt-strap
- color navyblue
- universal-size



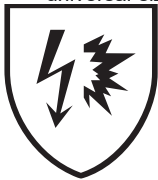
**APC 2**  
**630 kJ**  
**47 cal/cm<sup>2</sup>**

Description	Item No.
arc flash hood, APC 2, HRC 4, 47 cal/cm <sup>2</sup> , with ventilation system	7406997

## arc flash hood HRC 4 Power, APC 2, 40 cal/cm<sup>2</sup>

The arc flash hood power permits the user to work at live parts or in the vicinity of live parts.

- arc flash tested according to IEC 61482-1-1: ASTM F2178, ATPV: 40 cal/cm<sup>2</sup>
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level  $W_{LBP} = 630$  kJ
- EN 166 "personal eye-protection requirements"
- with CE-labeling
- ultra light grammage 410 g/m<sup>2</sup> (12 oz.yd<sup>2</sup>)
- true color visor
- for the highest arc flash protection
- with integrated hard hat and bracket
- color greyblue
- universal-size



**APC 2**  
**630 kJ**  
**40 cal/cm<sup>2</sup>**

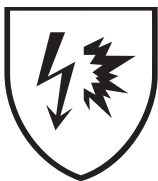


Description	Item No.
arc flash hood HRC 4 Power, APC 2, 40 cal/cm <sup>2</sup>	7406980

## arc flash hood HRC 4 Power, APC 2, 40 cal/cm<sup>2</sup>, with ventilation system

The arc flash hood power permits the user to work at live parts or in the vicinity of live parts.

- arc flash tested according to IEC 61482-1-1: ASTM F2178, ATPV: 40 cal/cm<sup>2</sup>
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level  $W_{LBP} = 630$  kJ
- EN 166 "personal eye-protection requirements"
- with CE-labeling
- ultra light grammage 410 g/m<sup>2</sup> (12 oz.yd<sup>2</sup>)
- true color visor
- for the highest arc flash protection
- with integrated hard hat, ANSI / ISEA Z89.1-2009 Type 1 Class E, and EU-Slot-bracket
- with ventilation system for a air circulation inside the hood
- supply unit with belt-strap
- color greyblue
- universal-size



**APC 2**  
**630 kJ**  
**40 cal/cm<sup>2</sup>**



Description	Item No.
arc flash hood HRC 4 Power, APC 2, 40 cal/cm <sup>2</sup> , with ventilation system	7406986

## lamp for arc flash hoods

- mounted via special fastening on the peak of the hood
- low weight 85g
- powerful LEDs, with 4 power levels
- light ON time ca. 200 h
- luminous flux 100 Lumen



Description	Item No.
lamp with special holder for arc protection hood	7404400

### bump cap for arc flash hoods

- can be added as impact protection to the arc protection hood
- protection against impact injury category 1



Description	Item No.
bump cap for arc protection hood	7406945

### neck protection for arc flash BSD hoods

- added via hook and loop fastener to back part of the hood
- therefore all round protection of the head against the thermal dangers of the electric arc



Description	Item No.
neck protection for arc protection hood	7406940

### storage bag

- storage bag
- to store e.g. helmet, face shield, gloves etc.
- with cord
- colour red
- without contents



Description	Item No.
storage bag for helmet and face shield, 500 x 300 mm	7507600

### backpack for equipment

- robust fabric for storing and transport
- color black
- size: diameter ca. 25 cm, height ca. 45 cm
- ca. 21 liter

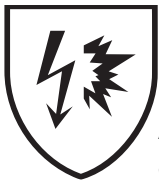


Description	Item No.
storage bag for utensils and equipment	4701000

## arc flash gloves HRC2light, APC 1, HRC 2, 9.6 cal/cm<sup>2</sup>

Particularly light arc protection gloves made of Nomex® and Kevlar® fabric. It can be worn alone or is excellent as an underlay glove for insulating gloves. In the event of an arc fault the protective glove prevents the insulating gloves from melting into the surface of the hand

- Arc-flash tested in accordance with IEC 61482-1-2, APC 1 (Class 1)
- Arc-flash tested in accordance with IEC 61482-1-1, ATPV 9.6 cal/cm<sup>2</sup>
- Protection against thermal hazards according to EN 407:2004
- Protection against mechanical risks according to EN 388:2003
- good haptics and sensitivity even when worn under insulating protective gloves, perspiration is reduced
- perfect fit due to soft, supple knitted fabric
- seams laid inwards, with aramid thread
- Attention, the gloves do not have any insulating properties, in combination with insulating gloves, however, the perfect protection against body flow and the thermal hazards of arc faults. arc fault is realised



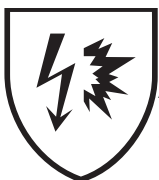
**APC 1**  
**9.6 cal/cm<sup>2</sup>**



Description	Item No.
BSD arc flash gloves HRC2light, APC 1, HRC 2, 9.6 cal/cm <sup>2</sup> , size: 7/8	4650508
BSD arc flash gloves HRC2light, APC 1, HRC 2, 9.6 cal/cm <sup>2</sup> , size: 8/9	4650509
BSD arc flash gloves HRC2light, APC 1, HRC 2, 9.6 cal/cm <sup>2</sup> , size: 9/10	4650510
BSD arc flash gloves HRC2light, APC 1, HRC 2, 9.6 cal/cm <sup>2</sup> , size: 10/11	4650511

## arc flash gloves, APC 2, HRC 2, 18 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1 (ASTM F2675): ATPV 18 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2007 APC 2 (class 2)
- additional tested with a higher test level  $W_{LBP} = 395 \text{ kJ}$
- protection against mechanic risks according to EN 388:2003
- protection against thermal risks according to EN 407:2004
- back side of glove made of double-textile
- inside seams, with aramid thread
- perfect fit via soft and flexible leather
- excellent delicacy of feeling



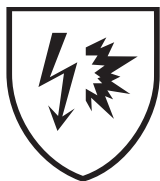
**APC 2**  
**395 kJ**  
**18 cal/cm<sup>2</sup>**



Description	Item No.
BSD arc flash gloves type A, APC 2, HRC 2, 18 cal/cm <sup>2</sup> , size: 8	4640008
BSD arc flash gloves type A, APC 2, HRC 2, 18 cal/cm <sup>2</sup> , size: 9	4640009
BSD arc flash gloves type A, APC 2, HRC 2, 18 cal/cm <sup>2</sup> , size: 10	4640010
BSD arc flash gloves type A, APC 2, HRC 2, 18 cal/cm <sup>2</sup> , size: 11	4640011
BSD arc flash gloves type A, APC 2, HRC 2, 18 cal/cm <sup>2</sup> , size: 12	4640012

## arc flash gloves, APC 2, HRC 3, 31 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1(ASTM F2675): ATPV 31 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2007 APC 2 (class 2)
- additional tested with a higher test level  $W_{LBP} = 395 \text{ kJ}$
- protection against mechanic risks according to EN 388:2003
- protection against thermal risks according to EN 407:2004
- back side of glove made of double-textile
- perfect fit via soft and flexible leather
- excellent delicacy of feeling



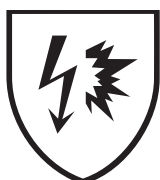
**APC 2**  
**395 kJ**  
**31 cal/cm<sup>2</sup>**



Description	Item No.
BSD arc flash gloves, HRC 3, 31 cal/cm <sup>2</sup> , size: 8	4650308
BSD arc flash gloves, HRC 3, 31 cal/cm <sup>2</sup> , size: 9	4650309
BSD arc flash gloves, HRC 3, 31 cal/cm <sup>2</sup> , size: 10	4650310
BSD arc flash gloves, HRC 3, 31 cal/cm <sup>2</sup> , size: 11	4650311
BSD arc flash gloves, HRC 3, 31 cal/cm <sup>2</sup> , size: 12	4650312

## arc flash gloves, APC 2, HRC 4, 45 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1(ASTM F2675): ATPV 45 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2007 APC 2 (class 2)
- additional tested with a higher test level  $W_{LBP} = 630 \text{ kJ}$
- protection against mechanic risks according to EN 388:2003
- protection against thermal risks according to EN 407:2004
- back side of glove made of double-textile
- perfect fit via soft and flexible leather
- excellent delicacy of feeling



**APC 2**  
**630 kJ**  
**45 cal/cm<sup>2</sup>**



Description	Item No.
BSD arc flash gloves, APC 2, HRC 4, 45 cal/cm <sup>2</sup> , size: 8	4650408
BSD arc flash gloves, APC 2, HRC 4, 45 cal/cm <sup>2</sup> , size: 9	4650409
BSD arc flash gloves, APC 2, HRC 4, 45 cal/cm <sup>2</sup> , size: 10	4650410
BSD arc flash gloves, APC 2, HRC 4, 45 cal/cm <sup>2</sup> , size: 11	4650411
BSD arc flash gloves, APC 2, HRC 4, 45 cal/cm <sup>2</sup> , size: 12	4650412

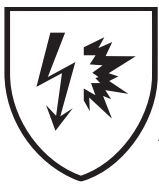


## Protective clothing

### arc flash shirt "Light", APC 1, HRC 2, 8 cal/cm<sup>2</sup>

The arc flash shirt "Light" is made of a very light multifunctional fabric, which fulfills different protection requirements and is very good adapted for heat exposed working places.

- arc flash tested according to IEC 61482-1-1 (ASTM F1959), ATPV = 8 cal/cm<sup>2</sup>, ELIM = 7 cal/cm<sup>2</sup>
- also certificated according to IEC 61482-2: 2014 (ASTM F1506)
- arc flash tested according to IEC 61482-1-2:2007 APC 1 (class 1)
- heat and flame protection according to EN ISO 11612:2008 A1+A2/B1/C1/F1
- welding protection according to EN ISO 11611:2007 class 1-A1
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- no washing cycle limitation, industrial laundering suitable according to ISO 15797
- fabric: modacrylic (> 50%), Lyocell, aramid, antistatic
- weight: 240g/m<sup>2</sup>
- color: navy blue



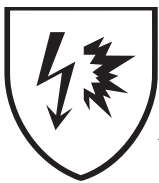
**APC 1**  
**8.0 cal/cm<sup>2</sup>**



Description	Item No.
shirt "Light", APC 1, HRC 2, 8 cal/cm <sup>2</sup> size: S	4601021
shirt "Light", APC 1, HRC 2, 8 cal/cm <sup>2</sup> size: M	4601022
shirt "Light", APC 1, HRC 2, 8 cal/cm <sup>2</sup> size: L	4601023
shirt "Light", APC 1, HRC 2, 8 cal/cm <sup>2</sup> , size: XL	4601024
shirt "Light", APC 1, HRC 2, 8 cal/cm <sup>2</sup> size: XXL	4601025
shirt "Light", APC 1, HRC 2, 8 cal/cm <sup>2</sup> size: XXXL	4601026

### arc flash shirt, long sleeve, APC 1, HRC 2, 14 cal/cm<sup>2</sup>

- arc tested according to IEC 61482-1-2, APC 1 (Class 1)
- additional tested according to IEC 61482-1-1 (ASTM F1959), ATPV: 14 cal/cm<sup>2</sup>, ELIM = 13 cal/cm<sup>2</sup>
- fabric with excellent wearing properties
- flame-retardant
- DIN ISO 11612 (A1+A2, B1, C1, F1)
- markings are patched on the sleeve
- color: navy blue



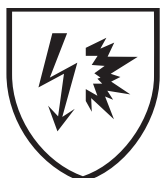
**APC 1**  
**14 cal/cm<sup>2</sup>**



Description	Item No.
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm <sup>2</sup> , size: S	4601037
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm <sup>2</sup> , size: M	4601038
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm <sup>2</sup> , size: L	4601039
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm <sup>2</sup> , size: XL	4601040
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm <sup>2</sup> , size: 3XL	4601042
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm <sup>2</sup> , size: 2XL	4601041
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm <sup>2</sup> , size: 4XL	4601045
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm <sup>2</sup> , size: 5XL	4701066
shirt, long-sleeved, APC 1, HRC 2, 14 cal/cm <sup>2</sup> , size: 6XL	4701067

### arc flash polo shirt, APC 1, HRC 2, 14 cal/cm<sup>2</sup>

- arc tested according to IEC 61482-1-2, APC 1 (Class 1)
- additional tested according to IEC 61482-1-1 (ASTM F1959), ATPV: 14 cal/cm<sup>2</sup>, ELIM = 13 cal/cm<sup>2</sup>
- fabric with excellent wearing properties
- flame-retardant
- DIN ISO 11612 (A1+A2, B1, C1, F1)
- markings are patched on the sleeve
- color: navy /royal blue



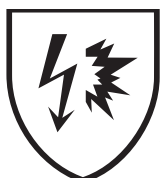
**APC 1**  
**14 cal/cm<sup>2</sup>**



Description	Item No.
polo shirt, APC 1, HRC 2, 14 cal/cm <sup>2</sup> size: S	4601031
polo shirt, APC 1, HRC 2, 14 cal/cm <sup>2</sup> size: M	4601032
polo shirt, APC 1, HRC 2, 14 cal/cm <sup>2</sup> size: L	4601033
polo shirt, APC 1, HRC 2, 14 cal/cm <sup>2</sup> size: XL	4601034
polo shirt, APC 1, HRC 2, 14 cal/cm <sup>2</sup> size: 2XL	4601035
polo shirt, APC 1, HRC 2, 14 cal/cm <sup>2</sup> size: 3XL	4601036
polo shirt, APC 1, HRC 2, 14 cal/cm <sup>2</sup> size: 4XL	4601043
polo shirt, APC 1, HRC 2, 14 cal/cm <sup>2</sup> size: 5XL	4601066
polo shirt, APC 1, HRC 2, 14 cal/cm <sup>2</sup> size: 6XL	4601067

### arc flash polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm<sup>2</sup>

- tested according to IEC 61482-1-2, APC 1 (class 1)
- additionally tested according to IEC 61482-1-1 (ASTM F1959), ATPV: 5.4 cal/cm<sup>2</sup>
- High-visibility protection according to DIN EN ISO 20471, class 1
- DIN ISO 11612 (A1+A2, B1, C1, F1)
- Piqué fabric with excellent wearing properties
- flame retardant
- Pictograms patched on sleeves
- Colour: warning yellow/navy



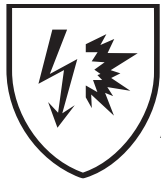
**APC 1**  
**5.4 cal/cm<sup>2</sup>**



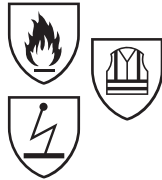
Description	Item No.
polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm <sup>2</sup> , size S	4667001
polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm <sup>2</sup> , size M	4667002
polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm <sup>2</sup> , size L	4667003
polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm <sup>2</sup> , size XL	4667004
polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm <sup>2</sup> , size 2XL	4667005
polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm <sup>2</sup> , size 3XL	4667006
polo shirt, HiVis yellow, APC 1, HRC 1, 5.4 cal/cm <sup>2</sup> , size 4XL	4667007

## arc flash polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm<sup>2</sup>

- tested according to IEC 61482-1-2, APC 1 (class 1)
- additionally tested according to IEC 61482-1-1 (ASTM F1959), ATPV: 5.4 cal/cm<sup>2</sup>
- High-visibility protection according to DIN EN ISO 20471, class 1
- DIN ISO 11612 (A1+A2, B1, C1, F1)
- Piqué fabric with excellent wearing properties
- flame retardant
- Pictograms patched on sleeves
- Colour: warning orange



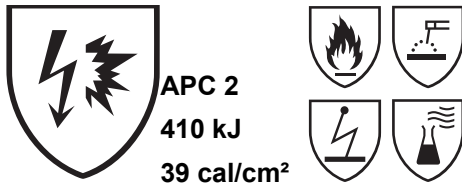
**APC 1**  
**5.4 cal/cm<sup>2</sup>**



Description	Item No.
polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm <sup>2</sup> , size S	4667021
polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm <sup>2</sup> , size M	4667022
polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm <sup>2</sup> , size L	4667023
polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm <sup>2</sup> , size XL	4667024
polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm <sup>2</sup> , size 2XL	4667025
polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm <sup>2</sup> , size 3XL	4667026
polo shirt, HiVis orange, APC 1, HRC 1, 5.4 cal/cm <sup>2</sup> , size 4XL	4667027

## arc flash jacket "BSD FuturaTec", APC 2, HRC 3, 39 cal/cm<sup>2</sup>

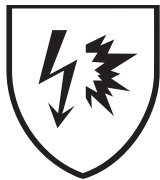
- innovative single-layer fabric
- very breathable (RET value 8.3 m<sup>2</sup> PA/W)
- arc flash tested to IEC 61482-1-2, APC 2 (class 2)
- additionally tested for accidental arcing with increased test level  $W_{LBP} = 410 \text{ kJ}$
- arc flash tested according to IEC 61482-1-1, ATPV 39 cal/cm<sup>2</sup>, ELIM = 33 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-2
- heat and flame protection according to EN ISO 11612, A1/A2/B1/C1/D3/E2/F1
- welding protection according to EN ISO 11611 class 1, A1+A2
- protection against static electricity according to EN 1149-5
- chemical protection according to EN 13034, type 6
- extremely high arc protection with ultra-light fabric construction
- high wearing comfort due to low weight 300 g/m<sup>2</sup>
- innovative composite material inherent flame protection 300 g/m<sup>2</sup>
- comfortable cut with extended back, reflective piping, large number of spacious pockets
- innovative zip design (KISS-FLAP)
- very high colour fastness (no bleeding)
- embroidered identification pictograms with class indication
- innovative composite material inherent flame retardant 300 g/m<sup>2</sup>
- color: dark blue/navy blue



Description	Item No.
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 21	4616021
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 22	4616022
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 23	4616023
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 24	4616024
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 25	4616025
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 26	4616026
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 27	4616027
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 28	4616028
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 29	4616029
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 30	4616030
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 42	4616042
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 44	4616044
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 46	4616046
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 48	4616048
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 50	4616050
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 52	4616052
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 54	4616054
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 56	4616056
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 58	4616058
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 60	4616060
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 62	4616062
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 64	4616064
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 66	4616066
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 68	4616068
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 94	4616094
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 98	4616098
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 102	4616102
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 106	4616106
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 110	4616110
arc flash jacket "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 114	4616114

## arc flash dungarees "BSDFuturaTec", APC 2, HRC 3, 39 cal/cm<sup>2</sup>

- innovative single-layer fabric
- very breathable (RET value 8.3 m<sup>2</sup> PA/W)
- arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- additionally tested for accidental arcing with increased test level  $W_{LBP} = 410 \text{ kJ}$
- arc flash tested according to IEC 61482-1-1, ATPV 39 cal/cm<sup>2</sup>, ELIM = 33 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-2
- heat and flame protection according to EN ISO 11612, A1/A2/B1/C1/D3/E2/F1
- welding protection according to EN ISO 11611 class 1, A1+A2
- protection against static electricity according to EN 1149-5
- chemical protection according to EN 13034, type 6
- extremely high arc protection with ultra-light fabric construction
- high wearing comfort due to low weight 300 g/m<sup>2</sup>
- innovative composite material inherent flame protection 300 g/m<sup>2</sup>
- stretch straps with fixlock buckles, entry through 2 side stretch panels, 2 side seam wing pockets, 2 roomy leg pockets with 1 attached mobile phone pocket, 1 back pocket, 1 folding rule pocket, 1 bib pocket, plastic zip
- legs with reflective stripes
- 2 knee pad pockets with velcro fastener
- pre-shaped leg cut for better ergonomics
- embroidered identification pictograms with class indication on the left leg pocket
- very high colour fastness (no bleeding)
- innovative composite material inherent flame retardant 300 g/m<sup>2</sup>
- color: dark blue/navy blue



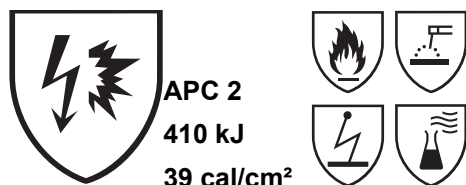
**APC 2**  
**410 kJ**  
**39 cal/cm<sup>2</sup>**



Description	Item No.
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 21	4617021
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 22	4617022
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 23	4617023
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 24	4617024
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 25	4617025
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 26	4617026
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 27	4617027
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 28	4617028
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 29	4617029
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 30	4617030
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 42	4617042
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 44	4617044
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 46	4617046
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 48	4617048
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 50	4617050
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 52	4617052
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 54	4617054
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 56	4617056
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 58	4617058
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 60	4617060
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 62	4617062
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 64	4617064
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 66	4617066
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 68	4617068
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 94	4617094
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 98	4617098
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 102	4617102
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 106	4617106
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 110	4617110
arc flash dungarees "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 114	4617114

## arc flash trousers "BSD FuturaTec", APC 2, HRC 3, 39 cal/cm<sup>2</sup>

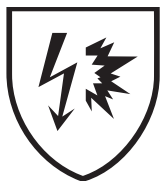
- innovative single-layer fabric
- very breathable (RET value 8.3 m<sup>2</sup> PA/W)
- arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- additionally tested for accidental arcing with increased test level  $W_{LBP} = 410 \text{ kJ}$
- arc flash tested according to IEC 61482-1-1, ATPV 39 cal/cm<sup>2</sup>, ELIM = 33 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-2
- heat and flame protection according to EN ISO 11612, A1/A2/B1/C1/D3/E2/F1
- welding protection according to EN ISO 11611 class 1, A1+A2
- protection against static electricity according to EN 1149-5
- chemical protection according to EN 13034, type 6
- extremely high arc protection with ultra-light fabric construction
- high wearing comfort due to low weight 300 g/m<sup>2</sup>
- innovative composite material inherent flame protection 300 g/m<sup>2</sup>
- attached waistband with belt loops and elastic, 2 side seam fly pockets, 2 spacious leg pockets with 1 patch mobile phone pocket mobile phone pocket, 1 back pocket, 1 folding rule pocket, plastic zip fastener
- legs with reflective stripes
- 2 knee pad pockets with velcro fastener
- pre-shaped leg cut for better ergonomics
- embroidered identification pictograms with class indication on the left leg pocket
- very high colour fastness (no bleeding)
- innovative composite material inherent flame retardant 300 g/m<sup>2</sup>
- color: dark blue/navy blue



Description	Item No.
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 21	4618021
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 22	4618022
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 23	4618023
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 24	4618024
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 25	4618025
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 26	4618026
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 27	4618027
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 28	4618028
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 29	4618029
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 30	4618030
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 42	4618042
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 44	4618044
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 46	4618046
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 48	4618048
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 50	4618050
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 52	4618052
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 54	4618054
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 56	4618056
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 58	4618058
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 60	4618060
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 62	4618062
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 64	4618064
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 66	4618066
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 68	4618068
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 94	4618094
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 98	4618098
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 102	4618102
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 106	4618106
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 110	4618110
arc flash trousers "BSD FuturaTec", APC 2, 39 cal/cm <sup>2</sup> , size: 114	4618114

## arc flash jacket "Comfort", APC 1, HRC 2, 13 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: ATPV 13 cal/cm<sup>2</sup>, ELIM = 11 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2014 APC 1 (class 1)
- excellent breathability, RET-value 4,00 m<sup>2</sup> PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- with high stand up collar, plastic staple zipper, hidden push-buttons, inside pockets and reflective stripes at the pockets, sleeves and front/back part.
- embroidered signs with class specification at the collar
- 320 g/m<sup>2</sup> fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: navy/royal blue



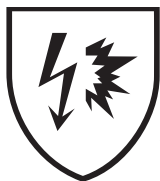
**APC 1**  
**13 cal/cm<sup>2</sup>**



Description	Item No.
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 22	4641022
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 23	4641023
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 24	4641024
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 25	4641025
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 26	4641026
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 27	4641027
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 28	4641028
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 29	4641029
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 30	4641030
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 44	4641044
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 46	4641046
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 48	4641048
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 50	4641050
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 52	4641052
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 54	4641054
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 56	4641056
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 58	4641058
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 60	4641060
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 62	4641062
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 64	4641064
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 66	4641066
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 68	4641068
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 94	4641094
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 98	4641098
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 102	4641102
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 106	4641106
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 110	4641110
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 114	4641114

## arc flash dungarees "Comfort", APC 1, HRC 2, 13 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: ATPV 13 cal/cm<sup>2</sup>, ELIM = 11 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2014 APC 1 (class 1)
- excellent breathability, RET-value 4,00 m<sup>2</sup> PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- stretch strap with fast-lock clasp, side-access with 2 stretch insert, 2 side seam slant pocket, 1 leg pocket with mobile phone pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- legs and pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m<sup>2</sup> fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: navy/royal blue



**APC 1**  
**13 cal/cm<sup>2</sup>**

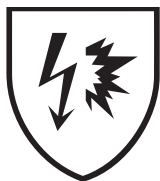


Description	Item No.
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 22	4642022
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 23	4642023
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 24	4642024
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 25	4642025
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 26	4642026
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 27	4642027
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 28	4642028
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 29	4642029
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 30	4642030
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 44	4642044
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 46	4642046
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 48	4642048
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 50	4642050
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 52	4642052
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 54	4642054
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 56	4642056
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 58	4642058
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 60	4642060
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 62	4642062
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 64	4642064
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 66	4642066
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 68	4642068
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 94	4642094
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 98	4642098
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 102	4642102
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 106	4642106
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 110	4642110
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 114	4642114



## arc flash trousers "Comfort", APC 1, HRC 2, 13 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: ATPV 13 cal/cm<sup>2</sup>, ELIM = 11 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2014 APC 1 (class 1)
- excellent breathability, RET-value 4,00 m<sup>2</sup> PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- attached waistband with 7 belt loops and elastic band, 2 side seam slant pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- legs and pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m<sup>2</sup> fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: navy/royal blue



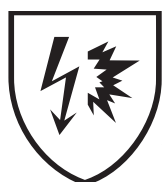
**APC 1**  
**13 cal/cm<sup>2</sup>**



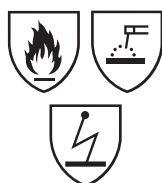
Description	Item No.
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 22	4643022
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 23	4643023
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 24	4643024
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 25	4643025
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 26	4643026
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 27	4643027
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 28	4643028
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 29	4643029
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 30	4643030
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 42	4643042
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 44	4643044
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 46	4643046
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 48	4643048
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 50	4643050
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 52	4643052
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 54	4643054
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 56	4643056
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 58	4643058
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 60	4643060
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 62	4643062
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 64	4643064
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 66	4643066
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 68	4643068
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 94	4643094
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 98	4643098
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 102	4643102
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 106	4643106
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 110	4643110
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 114	4643114

## arc flash jacket "Comfort", APC 2, HRC 2, 22 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: EBT= 22 cal/cm<sup>2</sup>, ELIM = 16 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2014 APC 2 (class 2)
- excellent breathability, RET-value 4,00 m<sup>2</sup> PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- with high stand up collar, plastic staple zipper, hidden push-buttons, inside pockets and reflective stripes at the pockets, sleeves and front/back part.
- embroidered signs with class specification at the collar
- 320 g/m<sup>2</sup> fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: navy/royal blue



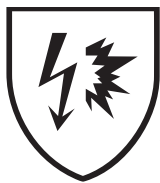
**APC 2**  
**22 cal/cm<sup>2</sup>**



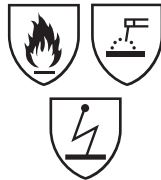
Description	Item No.
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 22	4651022
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 23	4651023
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 24	4651024
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 25	4651025
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 26	4651026
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 27	4651027
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 28	4651028
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 29	4651029
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 30	4651030
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 42	4651042
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 44	4651044
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 46	4651046
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 48	4651048
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 50	4651050
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 52	4651052
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 54	4651054
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 56	4651056
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 58	4651058
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 60	4651060
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 62	4651062
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 64	4651064
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 66	4651066
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 68	4651068
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 94	4651094
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 98	4651098
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 102	4651102
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 106	4651106
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 110	4651110
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 114	4651114

## arc flash dungarees "Comfort", APC 2, HRC 2, 22 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: EBT= 22 cal/cm<sup>2</sup>, ELIM = 16 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2014 APC 2 (class 2)
- excellent breathability, RET-value 4,00 m<sup>2</sup> PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- stretch strap with fast-lock clasp, side-access with 2 stretch insert, 2 side seam slant pocket, 1 leg pocket with mobile phone pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- legs and pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m<sup>2</sup> fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: navy/royal blue



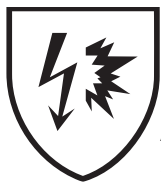
**APC 2**  
**22 cal/cm<sup>2</sup>**



Description	Item No.
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 22	4652022
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 23	4652023
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 24	4652024
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 25	4652025
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 26	4652026
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 27	4652027
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 28	4652028
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 29	4652029
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 30	4652030
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 44	4652044
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 46	4652046
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 48	4652048
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 50	4652050
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 52	4652052
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 54	4652054
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 56	4652056
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 58	4652058
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 60	4652060
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 62	4652062
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 64	4652064
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 66	4652066
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 68	4652068
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 94	4652094
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 98	4652098
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 102	4652102
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 106	4652106
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 110	4652110
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 114	4652114

## arc flash trousers "Comfort", APC 2, HRC 2, 22 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: EBT= 22 cal/cm<sup>2</sup>, ELIM = 16 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2014 APC 2 (class 2)
- excellent breathability, RET-value 4,00 m<sup>2</sup> PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- attached waistband with 7 belt loops and elastic band, 2 side seam slant pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- legs and pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m<sup>2</sup> fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: navy/royal blue



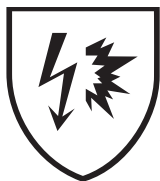
**APC 2**  
**22 cal/cm<sup>2</sup>**



Description	Item No.
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 22	4653022
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 23	4653023
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 24	4653024
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 25	4653025
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 26	4653026
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 27	4653027
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 28	4653028
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 29	4653029
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 30	4653030
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 42	4653042
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 44	4653044
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 46	4653046
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 48	4653048
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 50	4653050
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 52	4653052
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 54	4653054
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 56	4653056
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 58	4653058
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 60	4653060
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 62	4653062
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 64	4653064
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 66	4653066
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 68	4653068
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 94	4653094
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 98	4653098
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 102	4653102
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 106	4653106
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 110	4653110
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 114	4653114

## arc flash jacket "Comfort grey", APC 1, HRC 2, 13 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: ATPV 13 cal/cm<sup>2</sup>, ELIM = 11 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2014 APC 1 (class 1)
- excellent breathability, RET-value 4,00 m<sup>2</sup> PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- with high stand up collar, plastic staple zipper, hidden push-buttons, inside pockets and reflective stripes at the pockets, sleeves and front/back part.
- embroidered signs with class specification at the collar
- 320 g/m<sup>2</sup> fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: grey



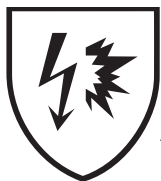
**APC 1**  
**13 cal/cm<sup>2</sup>**



Description	Item No.
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 22, grey	4641022grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 23, grey	4641023grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 24, grey	4641024grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 25, grey	4641025grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 26, grey	4641026grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 27, grey	4641027grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 28, grey	4641028grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 29, grey	4641029grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 30, grey	4641030grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 44, grey	4641044grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 46, grey	4641046grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 48, grey	4641048grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 50, grey	4641050grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 52, grey	4641052grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 54, grey	4641054grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 56, grey	4641056grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 58, grey	4641058grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 60, grey	4641060grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 62, grey	4641062grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 64, grey	4641064grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 66, grey	4641066grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 68, grey	4641068grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 94, grey	4641094grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 98, grey	4641098grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 102, grey	4641102grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 106, grey	4641106grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 110, grey	4641110grau
arc flash jacket Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 114, grey	4641114grau

## arc flash dungarees "Comfort grey", APC 1, HRC 2, 13 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: ATPV 13 cal/cm<sup>2</sup>, ELIM = 11 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2014 APC 1 (class 1)
- excellent breathability, RET-value 4,00 m<sup>2</sup> PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- stretch strap with fast-lock clasp, side-access with 2 stretch insert, 2 side seam slant pocket, 1 leg pocket with mobile phone pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m<sup>2</sup> fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: grey



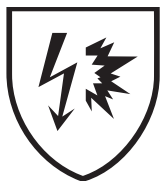
**APC 1**  
**13 cal/cm<sup>2</sup>**



Description	Item No.
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 22, grey	4642022grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 23, grey	4642023grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 24, grey	4642024grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 25, grey	4642025grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 26, grey	4642026grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 27, grey	4642027grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 28, grey	4642028grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 29, grey	4642029grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 30, grey	4642030grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 44, grey	4642044grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 46, grey	4642046grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 48, grey	4642048grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 50, grey	4642050grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 52, grey	4642052grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 54, grey	4642054grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 56, grey	4642056grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 58, grey	4642058grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 60, grey	4642060grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 62, grey	4642062grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 64, grey	4642064grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 66, grey	4642066grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 68, grey	4642068grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 94, grey	4642094grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 98, grey	4642098grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 102, grey	4642102grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 106, grey	4642106grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 110, grey	4642110grau
arc flash dungarees Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 114, grey	4642114grau

## arc flash trousers "Comfort grey", APC 1, HRC 2, 13 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: ATPV 13 cal/cm<sup>2</sup>, ELIM = 11 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2014 APC 1 (class 1)
- excellent breathability, RET-value 4,00 m<sup>2</sup> PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- attached waistband with 7 belt loops and elastic band, 2 side seam slant pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m<sup>2</sup> fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: grey



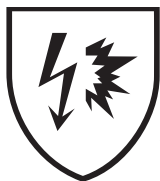
**APC 1**  
**13 cal/cm<sup>2</sup>**



Description	Item No.
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 22, grey	4643022grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 23, grey	4643023grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 24, grey	4643024grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 25, grey	4643025grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 26, grey	4643026grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 27, grey	4643027grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 28, grey	4643028grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 29, grey	4643029grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 30, grey	4643030grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 44, grey	4643044grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 46, grey	4643046grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 48, grey	4643048grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 50, grey	4643050grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 52, grey	4643052grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 54, grey	4643054grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 56, grey	4643056grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 58, grey	4643058grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 60, grey	4643060grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 62, grey	4643062grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 64, grey	4643064grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 66, grey	4643066grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 68, grey	4643068grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 94, grey	4643094grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 102, grey	4643102grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 106, grey	4643106grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 110, grey	4643110grau
arc flash trousers Comfort, APC 1, HRC 2, 13 cal/cm <sup>2</sup> , size: 114, grey	4643114grau

## arc flash jacket "Comfort grey", APC 2, HRC 2, 22 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: EBT= 22 cal/cm<sup>2</sup>, ELIM = 16 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2014 APC 2 (class 2)
- excellent breathability, RET-value 4,00 m<sup>2</sup> PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- with high stand up collar, plastic staple zipper, hidden push-buttons, inside pockets and reflective stripes at the pockets, sleeves and front/back part.
- embroidered signs with class specification at the collar
- 320 g/m<sup>2</sup> fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: grey



**APC 2**  
**22 cal/cm<sup>2</sup>**

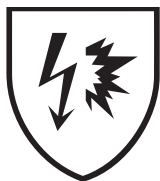


Description	Item No.
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 22, grey	4651022grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 23, grey	4651023grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 24, grey	4651024grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 24, grey	4651024grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 25, grey	4651025grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 26, grey	4651026grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 27, grey	4651027grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 28, grey	4651028grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 29, grey	4651029grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 30, grey	4651030grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 44, grey	4651044grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 46, grey	4651046grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 48, grey	4651048grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 50, grey	4651050grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 52, grey	4651052grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 54, grey	4651054grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 56, grey	4651056grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 58, grey	4651058grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 60, grey	4651060grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 62, grey	4651062grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 64, grey	4651064grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 66, grey	4651066grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 68, grey	4651068grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 94, grey	4651094grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 98, grey	4651098grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 102, grey	4651102grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 106, grey	4651106grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 110, grey	4651110grau
arc flash jacket Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 114, grey	4651114grau



## arc flash dungarees "Comfort grey", APC 2, HRC 2, 22 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: EBT= 22 cal/cm<sup>2</sup>, ELIM = 16 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2014 APC 2 (class 2)
- excellent breathability, RET-value 4,00 m<sup>2</sup> PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- stretch strap with fast-lock clasp, side-access with 2 stretch insert, 2 side seam slant pocket, 1 leg pocket with mobile phone pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- legs and pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m<sup>2</sup> fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: grey



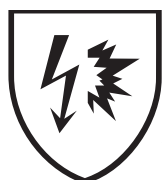
**APC 2**  
**22 cal/cm<sup>2</sup>**



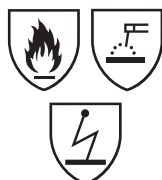
Description	Item No.
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 22, grey	4652022grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 23, grey	4652023grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 24, grey	4652024grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 25, grey	4652025grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 26, grey	4652026grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 27, grey	4652027grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 28, grey	4652028grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 29, grey	4652029grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 30, grey	4652030grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 44, grey	4652044grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 46, grey	4652046grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 48, grey	4652048grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 50, grey	4652050grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 52, grey	4652052grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 54, grey	4652054grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 56, grey	4652056grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 58, grey	4652058grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 60, grey	4652060grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 62, grey	4652062grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 64, grey	4652064grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 66, grey	4652066grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 68, grey	4652068grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 94, grey	4652094grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 98, grey	4652098grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 102, grey	4652102grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 106, grey	4652106grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 110, grey	4652110grau
arc flash dungarees Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 114, grey	4652114grau

## arc flash trousers "Comfort grey", APC 2, HRC 2, 22 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: EBT= 22 cal/cm<sup>2</sup>, ELIM = 16 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2:2014 APC 2 (class 2)
- excellent breathability, RET-value 4,00 m<sup>2</sup> PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:20158 A1+A2 /B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 1, A1+A2
- protection against static electricity according to EN 1149-5:2008
- inherent flame proofing
- attached waistband with 7 belt loops and elastic band, 2 side seam slant pocket, 1 hip pocket, 1 inch rule pocket, 1 bib pocket, plastic staple zipper
- legs and pockets with reflective stripes (3M™ Scotchlite™)
- 2 knee pad pockets with velcro fastener, twice adjustable
- embroidered signs with class specification on the left leg pocket
- 320 g/m<sup>2</sup> fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: grey



**APC 2**  
**22 cal/cm<sup>2</sup>**

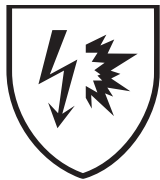


Description	Item No.
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 22, grey	4653022grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 23, grey	4653023grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 24, grey	4653024grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 25, grey	4653025grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 26, grey	4653026grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 27, grey	4653027grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 28, grey	4653028grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 29, grey	4653029grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 30, grey	4653030grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 44, grey	4653044grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 46, grey	4653046grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 48, grey	4653048grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 50, grey	4653050grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 52, grey	4653052grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 54, grey	4653054grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 56, grey	4653056grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 58, grey	4653058grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 60, grey	4653060grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 62, grey	4653062grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 64, grey	4653064grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 66, grey	4653066grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 68, grey	4653068grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 94, grey	4653094grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 98, grey	4653098grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 102, grey	4653102grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 106, grey	4653106grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 110, grey	4653110grau
arc flash trousers Comfort, APC 2, HRC 2, 22 cal/cm <sup>2</sup> , size: 114, grey	4653114grau

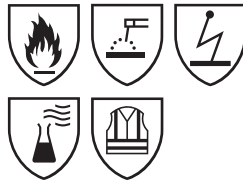
## arc flash jacket "Comfort HiVis", APC 2, HRC 2, 20 cal/cm<sup>2</sup>

Multifunctional PPE for universal usage with excellent wearing properties.

- electric arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- electric arc flash tested according to IEC 61482-1-1 (ASTM F1959), ATPV 20 cal/cm<sup>2</sup>, ELIM = 13 cal/cm<sup>2</sup>
- electric arc flash tested according to IEC 61482-2
- high visibility according to DIN EN ISO 20471, class 2 (combined with jacket class 3)
- heat and flame protection according to DIN EN ISO 11612 A1+A2, B1, C1, F1
- welding protection according to DIN EN ISO 11611, A1+A2, class 1
- protection against static electricity according to EN 1149-5:2008
- chemical protection according to EN 13034, Type 6
- complete double layer arc flash protection, front and back
- very light grammage, only 350 g/m<sup>2</sup>, 10,3 oz/yd<sup>2</sup> (double layer)
- fabric Modacrylic and Viskose, inherent flame retardant (FR)
- good breathability
- 4 outer pockets and 1 inner pocket
- color: high visibilty yellow/Navvy



**APC 2**  
**20 cal/cm<sup>2</sup>**

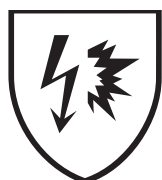


Description	Item No.
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 22	4661022
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 23	4661023
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 24	4661024
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 25	4661025
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 26	4661026
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 27	4661027
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 28	4661028
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 29	4661029
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 30	4661030
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 42	4661042
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 44	4661044
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 46	4661046
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 48	4661048
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 50	4661050
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 52	4661052
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 54	4661054
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 56	4661056
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 58	4661058
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 60	4661060
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 62	4661062
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 64	4661064
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 66	4661066
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 68	4661068
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 94	4661094
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 98	4661098
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 102	4661102
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 106	4661106
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 110	4661110
jacket Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 114	4661114

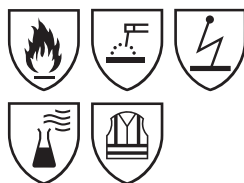
## arc flash dungarees "Comfort HiVis", APC 2, HRC 2, 20 cal/cm<sup>2</sup>

Multifunctional PPE for universal usage with excellent wearing properties.

- electric arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- electric arc flash tested according to IEC 61482-1-1 (ASTM F1959), ATPV 20 cal/cm<sup>2</sup>, ELIM = 13 cal/cm<sup>2</sup>
- electric arc flash tested according to IEC 61482-2
- high visibility according to DIN EN ISO 20471, class 2 (combined with jacket class 3)
- heat and flame protection according to DIN EN ISO 11612 A1+A2, B1, C1, F1
- welding protection according to DIN EN ISO 11611, A1+A2, class 1
- protection against static electricity according to EN 1149-5:2008
- chemical protection according to EN 13034, Type 6
- complete double layer arc flash protection, front and back
- very light grammage, only 350 g/m<sup>2</sup>, 10,3 oz/yd<sup>2</sup> (double layer)
- fabric Modacrylic and Viskose, inherent flame retardant (FR)
- good breathability
- 5 outer pockets, one meter stick pocket, 2 knee pad pockets and one bib pocket
- color: high visibility yellow/NAVY



**APC 2**  
**20 cal/cm<sup>2</sup>**

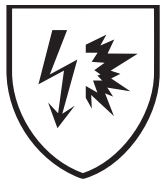


Description	Item No.
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 22	4662022
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 23	4662023
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 24	4662024
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 25	4662025
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 26	4662026
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 27	4662027
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 28	4662028
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 29	4662029
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 30	4662030
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 42	4662042
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 44	4662044
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 46	4662046
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 48	4662048
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 50	4662050
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 52	4662052
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 54	4662054
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 56	4662056
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 58	4662058
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 60	4662060
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 62	4662062
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 64	4662064
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 66	4662066
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 68	4662068
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 94	4662094
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 98	4662098
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 102	4662102
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 106	4662106
dungarees Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 110	4662110

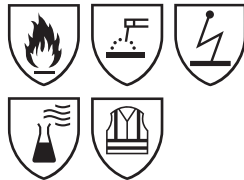
## trousers "Comfort HiVis", APC 2, HRC 2, 20 cal/cm<sup>2</sup>

Multifunctional PPE for universal usage with excellent wearing properties.

- electric arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- electric arc flash tested according to IEC 61482-1-1 (ASTM F1959), ATPV 20 cal/cm<sup>2</sup>, ELIM = 13 cal/cm<sup>2</sup>
- electric arc flash tested according to IEC 61482-2
- high visibility according to DIN EN ISO 20471, class 2 (combined with jacket class 3)
- heat and flame protection according to DIN EN ISO 11612 A1+A2, B1, C1, F1
- welding protection according to DIN EN ISO 11611, A1+A2, class 1
- protection against static electricity according to EN 1149-5:2008
- chemical protection according to EN 13034, Type 6
- complete double layer arc flash protection, front and back
- very light grammage, only 350 g/m<sup>2</sup>, 10,3 oz/yd<sup>2</sup> (double layer)
- fabric Modacrylic and Viskose, inherent flame retardant (FR)
- good breathability
- 5 outer pockets, one meter stick pocket and 2 knee pad pockets
- color: high visibility yellow/NAVY



**APC 2**  
**20 cal/cm<sup>2</sup>**

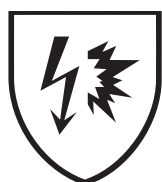


Description	Item No.
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 22	4663022
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 23	4663023
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 24	4663024
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 25	4663025
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 26	4663026
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 27	4663027
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 28	4663028
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 29	4663029
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 30	4663030
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 42	4663042
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 44	4663044
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 46	4663046
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 48	4663048
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 50	4663050
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 52	4663052
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 54	4663054
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 56	4663056
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 58	4663058
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 60	4663060
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 62	4663062
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 64	4663064
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 66	4663066
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 68	4663068
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 94	4663094
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 98	4663098
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 102	4663102
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 106	4663106
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 110	4663110
trousers Comfort HiVis, APC 2, HRC 2, 20 cal/cm <sup>2</sup> , size 114	4663114

## weather protection jacket GORE-TEX Pyrad® BSDshine, APC 2, HRC 4, 51 cal/cm²

Multifunctional PPE for universal usage with excellent wearing properties. Very high arc flash protection with ultra-light weight.

- electric arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- electric arc flash tested according to IEC 61482-1-1 (ASTM F1959), EBT = 51 cal/cm², ELIM = 42 cal/cm²
- electric arc flash tested according to IEC 61482-2
- weather protection according to DIN EN 343, class 3/3, Waterproof (meter of water >10 m, 100kPA)
- high visibility according to DIN EN ISO 20471, class 3
- heat and flame protection according to DIN EN ISO 11612 A1+A2, B2, C1, D2, E1, F1
- welding protection according to DIN EN ISO 11611, A1+A2, class 2
- protection against static electricity according to EN 1149-5:2008
- chemical protection according to EN 13034, Type 6
- complete double layer arc flash protection, front and back
- very light grammage, only 350 g/m², 10,3 oz/yd² (double layer)
- good breathability RET < 16 m2Pa/W (double layer)
- 2 outer pockets and 1 inner pocket
- sleeve with inner cuff
- marking with standard pictograms
- optional accessory: hood, fleece jacket to protect from cold
- color: high visibility yellow/navy blue and high visibility orange/navy blue



**APC 2**  
**51 cal/cm²**

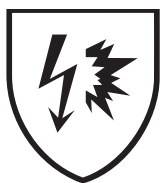


Description	Item No.
jacket, yellow, GORE-TEX®PYRAD ,APC 2, HRC 4, 51 cal/cm², size S	4615100
jacket, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size M	4615101
jacket, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size L	4615102
jacket, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size XL	4615103
jacket, yellow, GORE-TEX®PYRAD, APC 2,HRC 4,51 cal/cm², size 2XL	4615104
jacket, yellow, GORE-TEX®PYRAD,APC2, HRC 4, 51 cal/cm², size 3XL	4615105
jacket, yellow, GORE-TEX®PYRAD, APC 2, HRC 4,51 cal/cm², size 4XL	4615107
hood, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm²	4615106
jacket, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size S	4615300
jacket, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size M	4615301
jacket, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size L	4615302
jacket, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size XL	4615303
jacket, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 2XL	4615304
jacket, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 3XL	4615305
jacket, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm², size 3XL	4615307
hood, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm²	4615306
BSD fleeejacket "Polar" size S	4615000
BSD fleeejacket "Polar" size M	4615001
BSD fleeejacket "Polar" size L	4615002
BSD fleeejacket "Polar" size XL	4615003
BSD fleeejacket "Polar" size 2XL	4615004
BSD fleeejacket "Polar" size 3XL	4615005
BSD fleeejacket "Polar" size 4XL	4615006

## weather protection trouserst GORE-TEX Pyrad® BSDshine, APC 2, HRC 4, 51 cal/cm<sup>2</sup>

Multifunctional PPE for universal usage with excellent wearing properties. Very high arc flash protection with ultra-light weight.

- electric arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- electric arc flash tested according to IEC 61482-1-1 (ASTM F1959), EBT = 51 cal/cm<sup>2</sup>, ELLm = 42 cal/cm<sup>2</sup>
- electric arc flash tested according to IEC 61482-2
- weather protection according to DIN EN 343, class 3/3, Waterproof (meter of water >10 m, 100kPA)
- high visibility according to DIN EN ISO 20471, class 3 (jacket size S class 2)
- heat and flame protection according to DIN EN ISO 11612 A1+A2, B2, C1, D2, E1, F1
- welding protection according to DIN EN ISO 11611, A1+A2, class 2
- protection against static electricity according to EN 1149-5:2008
- chemical protection according to EN 13034, Type 6
- complete double layer arc flash protection, front and back
- very light grammage, only 350 g/m<sup>2</sup>, 10,3 oz/yd<sup>2</sup> (double layer)
- good breathability RET < 16 m<sup>2</sup>Pa/W (double layer)
- 2 outer pockets
- bip is removable, can be worn as trousers or dungarees
- marking with standard pictograms
- color: high visibility yellow/navy blue and high visibility orange/navy blue



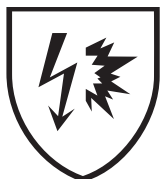
**APC 2**  
**51 cal/cm<sup>2</sup>**



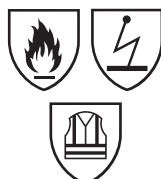
Description	Item No.
trousers, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm <sup>2</sup> , size S	4615200
trousers, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm <sup>2</sup> , size M	4615201
trousers, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm <sup>2</sup> , size L	4615202
trousers, yellow, GORE-TEX®PYRAD, APC 2 HRC 4, 51 cal/cm <sup>2</sup> , size XL	4615203
trousers, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm <sup>2</sup> , size 2XL	4615204
trousers, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm <sup>2</sup> , size 3XL	4615205
trousers, yellow, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm <sup>2</sup> , size 4XL	4615207
trousers, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm <sup>2</sup> , size S	4615400
trousers, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm <sup>2</sup> , size M	4615401
trousers, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm <sup>2</sup> , size L	4615402
trousers, orange, GORE-TEX®PYRAD, APC 2,HRC 4, 51 cal/cm <sup>2</sup> , size XL	4615403
trousers, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm <sup>2</sup> , size 2XL	4615404
trousers, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm <sup>2</sup> , size 3XL	4615405
trousers, orange, GORE-TEX®PYRAD, APC 2, HRC 4, 51 cal/cm <sup>2</sup> , size 3XL	4615406

## arc flash softshell jacket, APC 2

- warming and cold repellent three-ply laminate
- draughtproof, breathable and dirt repellent
- ergonomic and modern design with contrast stitching
- electric arc protection according to IEC 61482-2: APC 2 (class 2)
- warning attribute according to EN 471: class 3
- heat- and flame protection according to EN ISO 11612: A1/B1/C2/F2
- antistatic according to EN 1149-5



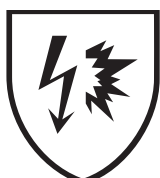
APC 2



Description	Item No.
Softshell jacket, APC 2, size: XS	4613001
Softshell jacket, APC 2, size: S	4613002
Softshell jacket, APC 2, size: M	4613003
Softshell jacket, APC 2, size: L	4613004
Softshell jacket, APC 2, size: XL	4613005
Softshell jacket, APC 2, size: 2XL	4613006
Softshell jacket, APC 2, size: 3XL	4613007

## arc flash jacket "Classic" HRC 2, 13 cal/cm<sup>2</sup>

- arc flash tested according to ASTM F1959, ATPV: 13 cal/cm<sup>2</sup>
- also certificated according to ASTM F1506, CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- embroidered signs with class specification on collar
- single layer fabric, 350 g/m<sup>2</sup> (10 oz/yd<sup>2</sup>) per layer: cotton, carbon
- color: navyblue



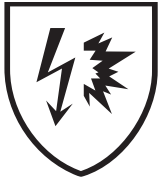
13 cal/cm<sup>2</sup>

Description	Item No.
BSD jacket HRC 2, 13 cal/cm <sup>2</sup> , size: S	4655050
BSD jacket HRC 2, 13 cal/cm <sup>2</sup> , size: M	4655051
BSD jacket HRC 2, 13 cal/cm <sup>2</sup> , size: L	4655052
BSD jacket HRC 2, 13 cal/cm <sup>2</sup> , size: XL	4655053
BSD jacket HRC 2, 13 cal/cm <sup>2</sup> , size: XXL	4655054
BSD jacket HRC 2, 13 cal/cm <sup>2</sup> , size: XXXL	4655055



## arc flash bib overall "Classic" HRC 2, 13 cal/cm<sup>2</sup>

- arc flash tested according to ASTM F1959, ATPV: 13 cal/cm<sup>2</sup>
- also certificated according to ASTM F1506, CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- embroidered signs with class specification on collar
- single layer fabric, 350 g/m<sup>2</sup> (10 oz/yd<sup>2</sup>) per layer: cotton, carbon
- color: navyblue



**13 cal/cm<sup>2</sup>**

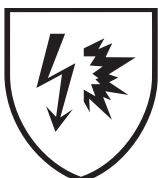
Description	Item No.
BSD bib overall HRC 2, 13 cal/cm <sup>2</sup> , size: S	4655070
BSD bib overall HRC 2, 13 cal/cm <sup>2</sup> , size: M	4655071
BSD bib overall HRC 2, 13 cal/cm <sup>2</sup> , size: L	4655072
BSD bib overall HRC 2, 13 cal/cm <sup>2</sup> , size: XL	4655073
BSD bib overall HRC 2, 13 cal/cm <sup>2</sup> , size: XXL	4655074
BSD bib overall HRC 2, 13 cal/cm <sup>2</sup> , size: 3XL	4655075

## arc flash kit "Classic" HRC 2, 13 cal/cm<sup>2</sup>

Kit-HRC 2 consists of:

- 1 pce arc flash hood HRC 2
- 1 pce arc flash jacket HRC 2
- 1 pce arc flash dungarees HRC 2
- 1 pair arc flash gloves HRC 3
- 1 pce storage bag

- arc flash hood with integrated hard hat and bracket tested according to ASTM F2178, ATPV: 13 cal/cm<sup>2</sup>
- arc flash tested according to ASTM F1959, ATPV: 13 cal/cm<sup>2</sup>
- also certificated according to ASTM F1506, CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- single layer fabric, 350 g/m<sup>2</sup> (10 oz/yd<sup>2</sup>) per layer: cotton, carbon
- bag to store or transport the Kit
- color: navyblue

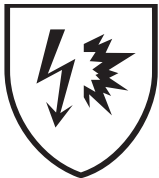


**13 cal/cm<sup>2</sup>**

Description	Item No.
KIT HRC 2, 13 cal/cm <sup>2</sup> , size: S	4100210
KIT HRC 2, 13 cal/cm <sup>2</sup> , size: M	4100211
KIT HRC 2, 13 cal/cm <sup>2</sup> , size: L	4100212
KIT HRC 2, 13 cal/cm <sup>2</sup> , size: XL	4100213
KIT HRC 2, 13 cal/cm <sup>2</sup> , size: XXL	4100214
KIT HRC 2, 13 cal/cm <sup>2</sup> , size: XXXL	4100215

## arc flash jacket "Classic" HRC 3, 28 cal/cm<sup>2</sup>

- arc flash tested according to ASTM F1959, ATPV: 28 cal/cm<sup>2</sup>
- also certificated according to CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- embroidered signs with class specification on the collar
- double layer fabric:
  - outer layer 350 g/m<sup>2</sup> (10 oz/yd<sup>2</sup>): cotton, carbon
  - inner layer 250 g/m<sup>2</sup> (7.4 oz/yd<sup>2</sup>): cotton, polyamid, carbon
- color: navyblue

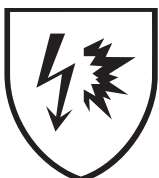


**28 cal/cm<sup>2</sup>**

Description	Item No.
BSD jacket HRC 3, 28 cal/cm <sup>2</sup> , size: S	4655080
BSD jacket HRC 3, 28 cal/cm <sup>2</sup> , size: M	4655081
BSD jacket HRC 3, 28 cal/cm <sup>2</sup> , size: L	4655082
BSD jacket HRC 3, 28 cal/cm <sup>2</sup> , size: XL	4655083
BSD jacket HRC 3, 28 cal/cm <sup>2</sup> , size: XXL	4655084
BSD jacket HRC 3, 28 cal/cm <sup>2</sup> , size: XXXL	4655085

## arc flash bib overall "Classic" HRC 3, 28 cal/cm<sup>2</sup>

- arc flash tested according to ASTM F1959, ATPV: 28 cal/cm<sup>2</sup>
- also certificated according to CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- embroidered signs with class specification on the collar
- double layer fabric:
  - outer layer 350 g/m<sup>2</sup> (10 oz/yd<sup>2</sup>): cotton, carbon
  - inner layer 250 g/m<sup>2</sup> (7.4 oz/yd<sup>2</sup>): cotton, polyamid, carbon
- color: navyblue



**28 cal/cm<sup>2</sup>**

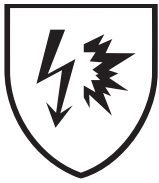
Description	Item No.
BSD bib overall HRC 3, 28 cal/cm <sup>2</sup> , size: S	4655090
BSD bib overall HRC 3, 28 cal/cm <sup>2</sup> , size: M	4655091
BSD bib overall HRC 3, 28 cal/cm <sup>2</sup> , size: L	4655092
BSD bib overall HRC 3, 28 cal/cm <sup>2</sup> , size: XL	4655093
BSD bib overall HRC 3, 28 cal/cm <sup>2</sup> , size: XXL	4655094
BSD bib overall HRC 3, 28 cal/cm <sup>2</sup> , size: 3XL	4655095

## arc flash kit "Classic" HRC 3, 28 cal/cm<sup>2</sup>

Kit-HRC 3 consists of:

- 1 pce arc flash hood HRC 3
- 1 pce arc flash jacket HRC 3
- 1 pce arc flash dungarees HRC 3
- 1 pair arc flash gloves HRC 3
- 1 pce storage bag

- arc flash hood with integrated hard hat and bracket tested according to ASTM F2178, ATPV: 28 cal/cm<sup>2</sup>
- arc flash tested according to ASTM F1959, ATPV: 28 cal/cm<sup>2</sup>
- arc flash tested according to CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- double layer fabric:
  - outer layer 350 g/m<sup>2</sup> (10 oz/yd<sup>2</sup>): cotton, carbon
  - inner layer 250 g/m<sup>2</sup> (7.4 oz/yd<sup>2</sup>): cotton, polyamid, carbon
- bag to store or transport the Kit
- color: navyblue

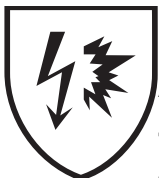


28 cal/cm<sup>2</sup>

Description	Item No.
KIT HRC 3, 28 cal/cm <sup>2</sup> , size: S	4100310
KIT HRC 3, 28 cal/cm <sup>2</sup> , size: M	4100311
KIT HRC 3, 28 cal/cm <sup>2</sup> , size: L	4100312
KIT HRC 3, 28 cal/cm <sup>2</sup> , size: XL	4100313
KIT HRC 3, 28 cal/cm <sup>2</sup> , size: XXL	4100314
KIT HRC 3, 28 cal/cm <sup>2</sup> , size: XXXL	4100315

## arc flash jacket, APC 2, HRC 4, 47 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: and ASTM F1959/F1959M-14: ATPV 47 cal/cm<sup>2</sup>, ELIM = 41 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-2:2009 APC 2 (class 2)
- additional tested with higher test level  $W_{LBP} = 410$  kJ
- heat and flame protection according to EN ISO 11612 (A1 / B1 / C1 / E3)
- welder protection according to EN ISO 11611 (class 1 - A1)
- also certificated according to ASTM F1506, CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- embroidered signs with class specification on left chest
- double layer fabric, 350 g/m<sup>2</sup> (10 oz/yd<sup>2</sup>) per layer: cotton, carbon
- color: navyblue



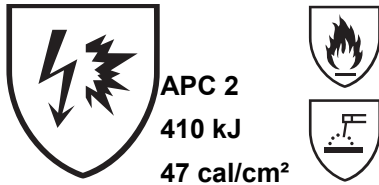
APC 2  
410 kJ  
47 cal/cm<sup>2</sup>



Description	Item No.
BSD jacket HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: S	4655030
BSD jacket HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: M	4655031
BSD jacket HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: L	4655032
BSD jacket HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: XL	4655033
BSD jacket HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: 2XL	4655034
BSD jacket HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: 3XL	4655035
BSD jacket HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: 4XL	4655036

## arc flash bib overall, APC 2, HRC 4, 47 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: and ASTM F1959/F1959M-14: ATPV 47 cal/cm<sup>2</sup>, ELIM = 41 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-2:2009 APC 2 (class 2)
- additional tested with higher test level  $W_{LBP} = 410$  kJ
- heat and flame protection according to EN ISO 11612 (A1 / B1 / C1 / E3)
- welder protection according to EN ISO 11611 (class 1 - A1)
- also certificated according to ASTM F1506, CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- embroidered signs with class specification on the left leg
- double layer fabric, 350 g/m<sup>2</sup> (10 oz/yd<sup>2</sup>) per layer: cotton, carbon
- color: navyblue



**APC 2**  
**410 kJ**  
**47 cal/cm<sup>2</sup>**

Description	Item No.
BSD bib overall HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: S	4655040
BSD bib overall HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: M	4655041
BSD bib overall HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: L	4655042
BSD bib overall HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: XL	4655043
BSD bib overall HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: 2XL	4655044
BSD bib overall HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: 3XL	4655045
BSD bib overall HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: 4XL	4655046

## arc flash KIT, APC 2, HRC 4, 47 cal/cm<sup>2</sup>

Kit-HRC 4 consists of:

- 1 pce arc flash hood HRC 4
- 1 pce arc flash jacket HRC 4
- 1 pce arc flash dungarees HRC 4
- 1 pair arc flash gloves HRC 4
- 1 pce storage bag
- arc protection hood with integrated hard hat and bracket arc flash tested according to ASTM F2178, ATPV: 47 cal/cm<sup>2</sup>
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level  $W(LBP)= 630$  kJ
- garments arc flash tested according to IEC 61482-1-1: and ASTM F1959/F1959M-14: ATPV 47 cal/cm<sup>2</sup>, ELIM = 41 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-2:2009 APC 2 (class 2)
- additional tested with higher test level  $W_{LBP} = 410$  kJ
- heat and flame protection according to EN ISO 11612 (A1 / B1 / C1 / E3)
- welder protection according to EN ISO 11611 (class 1 - A1)
- arc flash testet according to ASTM F1506, CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- double layer fabric, 350 g/m<sup>2</sup> (10 oz/yd<sup>2</sup>) per layer: cotton, carbon
- bag to storage or transport the Kit
- color: navyblue

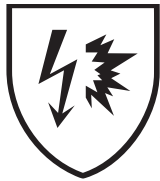


**APC 2**  
**410 kJ**  
**47 cal/cm<sup>2</sup>**

Description	Item No.
KIT HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: S	4100510
KIT HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: M	4100511
KIT HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: L	4100512
KIT HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: XL	4100513
KIT HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: 2XL	4100514
KIT HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: 3XL	4100515
KIT HRC 4, APC 2, 47 cal/cm <sup>2</sup> , size: 4XL	4100516

## arc flash jacket "Power", APC 2, HRC 4, 41 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: ASTM F1959, ATPV: 41 cal/cm<sup>2</sup>, ELIM = 29 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2, APC 2 (Class 2)
- heat and flame protection according to EN ISO 11612:2015 A1/B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 2-A1
- extreme breathable according to EN 31092 / ISO 11092: RET= 7.10 m<sup>2</sup> Pa/W
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- industry washing suitable according to EN ISO 15797
- embroidered signs with class specification on the left chest
- ultra light grammage: 410g/m<sup>2</sup> (12 oz/yd<sup>2</sup>)
- outer layer 240 g/m<sup>2</sup>, 75% aramid (Nomex®), 13% modacrylic, 10.5% cotton, 1.5% antistatic component
- inner layer 170 g/m<sup>2</sup>, 100% aramid (Nomex®)
- color: greyblue



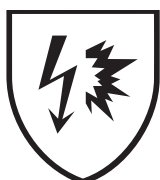
**APC 2**  
**41 cal/cm<sup>2</sup>**



Description	Item No.
BSD jacket HRC 4 Power, APC 2, 41 cal/cm <sup>2</sup> , 12.0 oz/yd <sup>2</sup> , size: S	4655010
BSD jacket HRC 4 Power, APC 2, 41 cal/cm <sup>2</sup> , 12.0 oz/yd <sup>2</sup> , size: M	4655011
BSD jacket HRC 4 Power, APC 2, 41 cal/cm <sup>2</sup> , 12.0 oz/yd <sup>2</sup> , size: L	4655012
BSD jacket HRC 4 Power, APC 2, 41 cal/cm <sup>2</sup> , 12.0 oz/yd <sup>2</sup> , size: XL	4655013
BSD jacket HRC 4 Power, APC 2, 41 cal/cm <sup>2</sup> , 12.0 oz/yd <sup>2</sup> , size: XXL	4655014
BSD jacket HRC 4 Power, APC 2, 41 cal/cm <sup>2</sup> , 12.0 oz/yd <sup>2</sup> , size: XXXL	4655015

## arc flash bib overall "Power", APC 2, HRC 4, 41 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: ASTM F1959, ATPV: 41 cal/cm<sup>2</sup>, ELIM = 29 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-1-2, APC 2 (Class 2)
- heat and flame protection according to EN ISO 11612:2015 A1/B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 2-A1
- extreme breathable according to EN 31092 / ISO 11092: RET= 7.10 m<sup>2</sup> Pa/W
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- 2 side pockets
- stretch strap with fast-lock clasp, side-access with 2 stretch insert
- industry washing suitable according to EN ISO 15797
- embroidered signs with class specification on the leg
- ultra light grammage: 410g/m<sup>2</sup> (12 oz/yd<sup>2</sup>)
- outer layer 240 g/m<sup>2</sup>, 75% aramid (Nomex®), 13% modacrylic, 10.5% cotton, 1.5% antistatic component
- inner layer 170 g/m<sup>2</sup>, 100% aramid (Nomex®)
- color: greyblue



**APC 2**  
**41 cal/cm<sup>2</sup>**

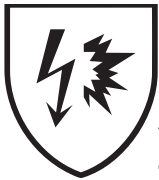


Description	Item No.
BSD bib overall HRC 4 Power, APC 2, 41 cal/cm <sup>2</sup> , 12.0 oz/yd <sup>2</sup> , size: S	4655020
BSD bib overall HRC 4 Power, APC 2, 41 cal/cm <sup>2</sup> , 12.0 oz/yd <sup>2</sup> , size: M	4655021
BSD bib overall HRC 4 Power, APC 2, 41 cal/cm <sup>2</sup> , 12.0 oz/yd <sup>2</sup> , size: L	4655022
BSD bib overall HRC 4 Power, APC 2, 41 cal/cm <sup>2</sup> , 12.0 oz/yd <sup>2</sup> , size: XL	4655023
BSD bib overall HRC 4 Power, APC 2, 41 cal/cm <sup>2</sup> , 12.0 oz/yd <sup>2</sup> , size: XXL	4655024
BSD bib overall HRC 4 Power, APC 2, 41 cal/cm <sup>2</sup> , 12.0 oz/yd <sup>2</sup> , size: 3XL	4655025

## arc flash KIT "Power" APC 2, HRC 4 , 40 cal/cm<sup>2</sup>

Kit-Power consists of:

- 1 pce arc flash hood HRC 4 Power
- 1 pce arc flash jacket HRC 4 Power
- 1 pce arc flash dungarees HRC 4 Power
- 1 pair arc flash gloves HRC 4 Power
- 1 pce storage bag
- arc flash hood with integrated hard hat and bracket tested according to ASTM F2178, ATPV: 40 cal/cm<sup>2</sup>
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- EN 166 "personal eye-protection requirements"
- with CE-labeling
- jacket and dungarees arc flash tested according to IEC 61482-1-1: ASTM F1959, ATPV: 41 cal/cm<sup>2</sup>, ELIM = 29 cal/cm<sup>2</sup>
- jacket and dungarees arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- heat and flame protection according to EN ISO 11612:2015 A1/B1/C1/F1
- welding protection according to EN ISO 11611:2015 class 2-A1
- extreme breathable according to EN 31092 / ISO 11092: RET= 7,10 m<sup>2</sup> Pa/W
- for the highest arc flash protection
- clothing industry washing suitable according to EN ISO 15797
- ultra light grammage: 410g/m<sup>2</sup> (12 oz.yd<sup>2</sup>)
- outer layer 240 g/m<sup>2</sup>, 75% aramid (Nomex®), 13% modacrylic, 10.5% cotton, 1.5% antistatic component
- inner layer 170 g/m<sup>2</sup>, 100% aramid (Nomex®)
- bag to transport and storage the KIT
- color: greyblue



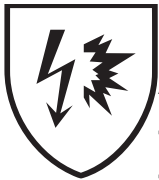
**APC 2**  
**40 cal/cm<sup>2</sup>**



Description	Item No.
KIT HRC 4 Power, 40 cal/cm <sup>2</sup> , APC 2, 12.0 oz/yd <sup>2</sup> , size: S	4100410
KIT HRC 4 Power, 40 cal/cm <sup>2</sup> , APC 2, 12.0 oz/yd <sup>2</sup> , size: M	4100411
KIT HRC 4 Power, 40 cal/cm <sup>2</sup> , APC 2, 12.0 oz/yd <sup>2</sup> , size: L	4100412
KIT HRC 4 Power, 40 cal/cm <sup>2</sup> , APC 2, 12.0 oz/yd <sup>2</sup> , size: XL	4100413
KIT HRC 4 Power, 40 cal/cm <sup>2</sup> , APC 2, 12.0 oz/yd <sup>2</sup> , size: XXL	4100414
KIT HRC 4 Power, 40 cal/cm <sup>2</sup> , APC 2, 12.0 oz/yd <sup>2</sup> , size: XXXL	4100415

## arc flash coat, APC 2, HRC 4, 47 cal/cm<sup>2</sup>

- arc flash tested according to IEC 61482-1-1: and ASTM F1959/F1959M-14: ATPV 47 cal/cm<sup>2</sup>, ELIM = 41 cal/cm<sup>2</sup>
- arc flash tested according to IEC 61482-2:2009 APC 2 (class 2)
- additional tested with higher test level  $W_{LBP} = 410$  kJ
- heat and flame protection according to EN ISO 11612 (A1 / B1 / C1 / E3)
- welder protection according to EN ISO 11611 (class 1 - A1)
- front part and sleeves double layered
- length: 110 cm
- walking slit on the back
- identification pictograms at the collar
- fabric ca. 350 g/m<sup>2</sup> per layer: cotton, antistatic component
- color: navy / royal blue



**APC 2**

**410 kJ**

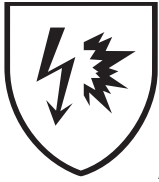
**47 cal/cm<sup>2</sup>**



Description	Item No.
arc flash coat, APC 2, HRC 4, 47 cal/cm <sup>2</sup> , size.: S	4655060
arc flash coat, APC 2, HRC 4, 47 cal/cm <sup>2</sup> , size.: M	4655062
arc flash coat, APC 2, HRC 4, 47 cal/cm <sup>2</sup> , size.: L	4655064
arc flash coat, APC 2, HRC 4, 47 cal/cm <sup>2</sup> , size.: XL	4655066
arc flash coat, APC 2, HRC 4, 47 cal/cm <sup>2</sup> , size.: XXL	4655068
arc flash coat, APC 2, HRC 4, 47.0 cal/cm <sup>2</sup> , size.: 3XL	4655069

## Belt

- arc flash tested
- flame-resistant
- antistatic
- permanently elastic
- color: black with embroidered BSD-logo



### APC 2

Description	Item No.
Belt, PPE against electric arc, length: 90 cm	4601320
Belt, PPE against electric arc, length: 100 cm	4601321
Belt, PPE against electric arc, length: 110 cm	4601322
Belt, PPE against electric arc, length: 120 cm	4601323
Belt, PPE against electric arc, length: 130 cm	4601324
Belt, PPE against electric arc, length: 140 cm	4601325
Belt, PPE against electric arc, length: 150 cm	4601326

## Knee pad

- for usage in trousers and dungarees
- out of 100 % polyethylene
- according to DIN EN 14404 (type 2, power stage 1)



Description	Item No.
knee pads, grey	4653111

## Storage and transport bag for KIT and PPE

- bag to store and transport PPE
- enough space for face protection, helmet, arc flash clothing and protective gloves
- solid construction
- size: 58 cm x 30 cm x 35 cm



Description	Item No.
storage and transport bag for KIT and PPE	4701001





# 2023



BSD Bildungs- und Servicezentrum GmbH  
Lutherstr. 33  
01900 Großröhrsdorf

Phone 035952 / 410 0  
Fax 035952 / 410 20  
E-Mail [info@bsd-dresden.de](mailto:info@bsd-dresden.de)  
Web [www.bsd-dresden.de](http://www.bsd-dresden.de)

the strong  
**Partner**  
for your  
**Safety**