

FACE PROTECTION	3
HAND PROTECTION	15
PROTECTIVE CLOTHING	17

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/cm² 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			EU Regulation 2016/425	EU Regulation 2016/425
Basis for selection of Arc Flash PPE		NFPA 70E IEEE 1584	DGUV Information 203/077 IEEE 1584	DGUV Information 203-077
	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
Product standards	Face protection	ASTM F2178 ANSI/ISEA Z87.1	DGUV GS-ET 29 EN ISO 16321	DGUV GS-ET 29 EN ISO 16321
	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 ²		Class xx							
Arc Flash PPE	Insulating PPE	Welding protection	Heat protection/flame protection	Antistatic	Chemical protection	High-visibility clothing	Rain protection	Protection against mechanical risks		
Additional info: Protection class Box-Test test level ATPV/EBT/ELIM	Additional info: Insulating class/ Voltage level									
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

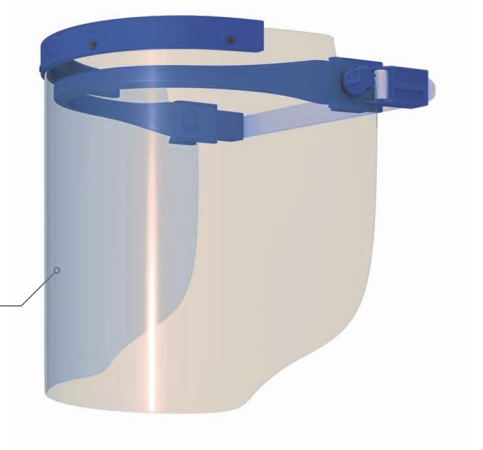
You don't know which PPE to choose for your employees? Is APC 2 sufficient for all workplaces? At which locations is the potential arc energy highest? And where is it actually lowest? The BSD arc flash software provides answers to such questions. It helps you calculate the arc energy at your workplaces 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



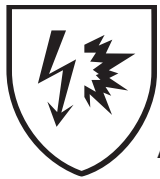
Item No. 4999999
BSD arc calculator software

Arc flash face shield "ErgoS-Basis"

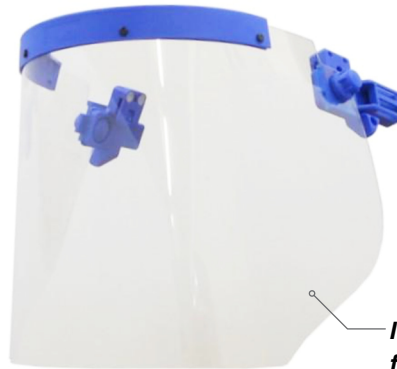
- arc flash tested according to DGUV GS-ET-29, APC 1 (class 1)
- EN 166, "personal eye-protection requirement"
- true color visor (color rendering index >95%)
- Mounting options
 - universal mount fits standard electrician's helmets
 - slot-bracket suitable for helmets with 30 mm Euro-slots
 - mounting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



Item No. 7406800
face shield ErgoS-Basic, APC 1, universal-bracket



APC 1



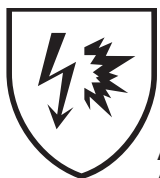
Item No. 7406810
face shield ErgoS-Basic, APC 1, EU-slot-bracket

Arc flash face shield "ErgoS"

- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additionally arc flash tested according to ASTM F2178, ATPV: 7.0 cal/cm²
- EN 166 "Personal eye protection"
- Clear colour rendering (colour rendering index >95 %)
- Mounting options:
 - universal mount fits standard electrician's helmets
 - slot-bracket suitable for helmets with 30 mm Euro-slots
 - mounting systems for other helmets on request
- Anti-fog spray included
- Guaranteed protective properties and service life up to 10 years



Item No. 7406000
face shield ErgoS, universal-bracket



APC 2
ATPV: 7.0 cal/cm²



Item No. 7406010
face shield ErgoS, EU-slot-bracket

Arc flash face shield ErgoS 3

All models (ErgoS 3, ErgoS 3 Plus and ErgoS 3 Power):

- The ErgoS 3 electrician's face shield is the latest generation of the ErgoS model, lightweight, with improved weight balance and improved ergonomics in the neck area.
- EN ISO 16321 'Eye and face protection for occupational use'
- Clear colour rendering (colour rendering index > 95%)
- Weight: 350 g / 400 g (slot/universal)
- Mounting options
 - universal mount fits standard electrician's helmets
 - slot attachment suitable for helmets with 30 mm Euro slot
 - US-slot mount
 - 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

ErgoS 3:

- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)

ErgoS 3 Plus:

- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additionally arc flash tested according to ASTM F2178, ATPV: 12 cal/cm²
- ANSI / ISEA Z87.1
- CSA Z94.3

ErgoS 3 Power:

- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- In conjunction with Balaclava (7406480) additionally arc flash tested with increased test level
W_{LBP} = 630 kJ
- additionally arc flash tested according to ASTM F2178, ATPV: 27 cal/cm²
- ANSI / ISEA Z87.1
- CSA Z94.3

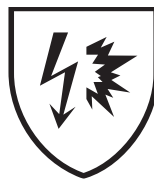


ErgoS 3:



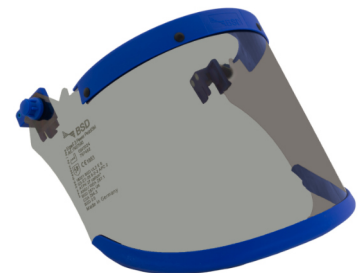
APC 2

ErgoS 3 Plus:



APC 2
ATPV: 12 cal/cm²
ELIM: 10 cal/cm²

ErgoS 3 Power:



APC 2 / 630 kJ*
ATPV: 27 cal/cm²
ELIM: 24 cal/cm²
* Only with Balaclava (7406480)

Item numbers

Mount	ErgoS 3	ErgoS 3 Plus	ErgoS 3 Power
Universal	7407310	7407410	7407510
EU-Slot	7407320	7407420	7407520
US-Slot	7407330	7407430	7407530
Petzl/3M	7407340	7407440	7407540
Kask	7407341	7407441	7407541

Universal mount

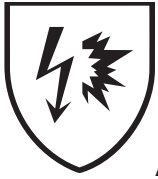


Slot mount



Arc flash Balaclava, 34 cal/cm²

- arc flash tested according to ASTM F1959, ATPV: 34 cal/cm²
- for wearing under face shields
- for a higher arc flash protection of the head
- double layer fabric: 7.8 oz/yd²
- universal size
- color: darkblue



ATPV:34 cal/cm²

Item No. **7406480**
Balaclava



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, red, blue, orange and green
- 1000 V AC
- DIN EN 50365
- Wear period 5 years
- with rotatable fastener for individual size adjustment
- at request your company emblem can be applied on the hard hat



class 0



Color	Item No.
yellow	7404000
white	7404001
red	7404002
blue	7404005
orange	7404006
green	7404012

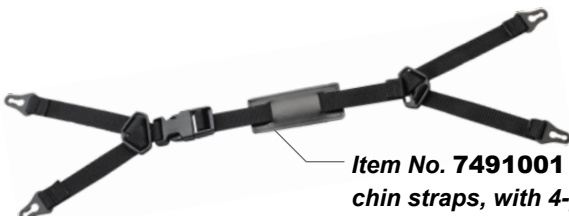
Chin straps

- For electrician hard hat 7404000, -001, -002, -005, 006, -012
- made from textile strap with convenient quick-release fastener
- available in 2-point or 4-point versions

Item No. **7490000**
chin straps, with 2-point fastener



Item No. **7491001**
chin straps, with 4-point fastener



Headlamp for "ErgoS" arc-flash face shields

- LED lamp for the ErgoS
- different light options
- SOS flashing function
- size 64,5 x 29 x 32 mm
- weight 35 g (excl. battery)
- incl. 1 x AA battery
- ANSI FL1
- IPX6
- power 100 lumens



Item No. 7404500
forehead lamp for ErgoS

Hard hat lamp PetaLux 3W

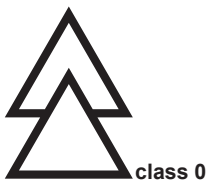
- high-power LED-light out of shock resistant and waterproof case
- 3 watt Cree-LED, ca. 7000 Kelvin colour temperature
- up to 150 m light range
- very long service life



Item No. 7404200
Power LED helmet lamp with bracket,
for ATEX zone 1

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
- available in white, yellow, orange, red and black



Color	Item No.
white	4701900
yellow	4701901
orange	4701902
red	4701903
black	4701904

Arc flash face shield ErgoS Intec

All models (ErgoS Intec Basis, ErgoS Intec, ErgoS Intec Plus and ErgoS Intec Power):
Electrician face shield with integrated visor. The visor can be pushed in the helmet when not in use.

- Visor EN 166, EN 170 and ANSI/ISEA Z87.1
- Helmet EN 397, EN 50365 Class 0 and ANSI/ISEA Z89.1
- Color rendering index > 95 %, no optical aging of the visor
- Permanent anti-fog protection
- available accessories: headlamp

ErgoS Intec Basis:

- arc flash tested according to DGUV GS-ET-29, APC 1 (class 1)
- with reflective strips all around

ErgoS Intec:

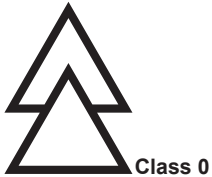
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)

ErgoS Intec Plus:

- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- arc flash tested according to ASTM F2178, ATPV: 14 cal/cm²

ErgoS Intec Power:

- arc flash tested according to ASTM F2178, ATPV: 28 cal/cm²

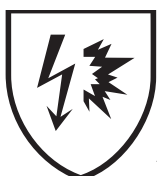


ErgoS Intec Basis
(Item No. 7406440)

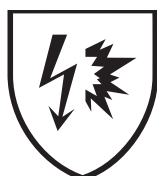
ErgoS Intec
(Item No. 7406400)

ErgoS Intec Plus
(Item No. 7406401)

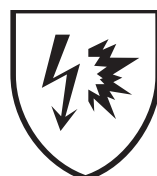
ErgoS Intec Power
(Item No. 7406501)



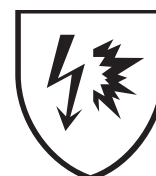
APC 1



APC 2



APC 2
ATPV: 14 cal/cm²
ELIM: 12 cal/cm²



ATPV: 28 cal/cm²
ELIM: 23 cal/cm²

Accessories and spare parts

Item No. 7406408 - helmet strap (complete)



Item No. 7406414 - head lamp



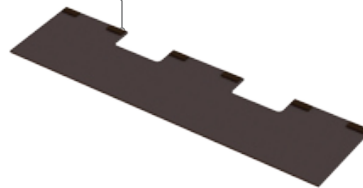
Item No. 7406409 - chin strap



Item No. 7406407 - sweatband rear



Item No. 7406406 - sweatband front



Arc flash hoods (Baseball-Cap Design)

All models (hood class 2, hood Plus 395 kJ, hood Plus 630 kJ):

- EN ISO 16321 'Eye and face protection for occupational use'
- natural colour reproduction thanks to clear, non-tinted visor
- colour: royal/navy blue
- classification on the visor
- universal size

hood class 2:

- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)

hood Plus 395 kJ:

- arc flash tested according to ASTM F2178, ATPV: 14 cal/cm²
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level $W_{LBP} = 395$ kJ

hood Plus 630 kJ:

- arc flash tested according to ASTM F2178, ATPV: 25 cal/cm²
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level $W_{LBP} = 630$ kJ



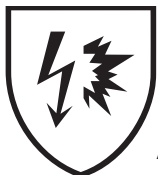
hood class 2
(Item No. 7406910)



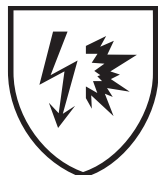
hood Plus 395 kJ
(Item No. 7406960)



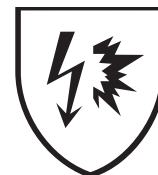
hood Plus 630 kJ
(Item No. 7406970)



APC 2



APC 2 / 395 kJ
ATPV: 14 cal/cm²
ELIM: 13 cal/cm²



APC 2 / 630 kJ
ATPV: 25 cal/cm²
ELIM: 23 cal/cm²

Lamp for arc flash hoods

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



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

bump cap

- protection against impact injury category 1



Item No. 7406945
bump cap for arc protection hood

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



Item No. 7406940
neck protection for arc protection hood

storage bag for BSD arc protection hood



Item No. 7406950
storage bag



Arc flash hoods (bee keeper's style)

All models (hood HRC 2, hood HRC 3, hood HRC 4, hood HRC 4 Power):

- natural colour reproduction thanks to clear, non-tinted visor
- for maximum arc flash protection
- with integrated helmet and helmet mount
- one size fits all

Arc flash hood "Classic" HRC 2:

- arc flash tested according to ASTM F2178, ATPV: 13 cal/cm²
- also tested according to ASTM F1506, CSA Z462, OSHA 1910.269
- Color: navyblue

Arc flash hood "Classic" HRC 3:

- arc flash tested according to ASTM F2178, ATPV: 28.0 cal/cm²
- also certified to ASTM F1506, CSA Z462, OSHA 1910.269
- Color: navyblue

Arc flash hood HRC 4:

- arc flash tested according to ASTM F2178, ATPV: 47 cal/cm²
- 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 certified according to ASTM F1506, CSA Z462, OSHA 1910.269
- Color: navyblue

Arc flash hood HRC 4 Power:

- arc flash tested according to IEC 61482-1-1: ASTM F2178, ATPV: 40 cal/cm²
- 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
- Color: greyblue



hood HRC 2
(Item No. 7406990)



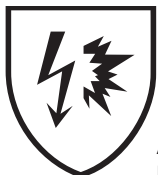
hood HRC 3
(Item No. 7406985)



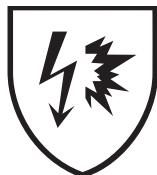
hood HRC 4
(Item No. 7406996)



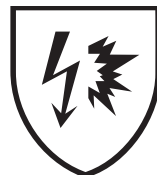
hood HRC 4 Power
(Item No. 7406980)



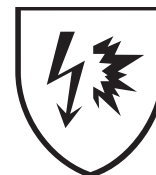
ATPV: 13 cal/cm²
ELIM: 12 cal/cm²



ATPV: 28 cal/cm²
ELIM: 26 cal/cm²



APC 2 / 630 kJ
ATPV: 47 cal/cm²
ELIM: 46 cal/cm²



APC 2 / 630 kJ
ATPV: 40 cal/cm²
ELIM: 34 cal/cm²

Ventilation system for arc flash hood HRC 4 and HRC 4 Power

- for air circulation inside the protective hood
- supply unit is worn on the hip with a belt



Item No. 7406997
hood HRC 4 with ventilation system



Item No. 7406986
hood HRC 4 Power with ventilation system

Storage and care

Storage bag

- for storing items such as helmets, face shields, gloves, etc.
- leather bag
- with cord
- color: red
- without contents
- size: 500 x 300 mm



Item No. 7507600
storage bag

backpack for equipment

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



Item No. 4701000
backpack

Anti-fog protective spray

- For face shields and hoods
- 30 ml bottle



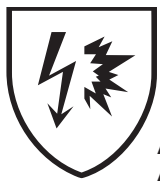
Item No. 7406601
Anti fog spray



Arc flash gloves HRC2light, APC 1, HRC 2

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/cm²
- 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
- Please note that the gloves do not have insulating properties, but when used in combination with insulating gloves, they provide perfect protection against electric shock and the thermal hazards of electric arcs.



APC 1
ATPV: 9.6 cal/cm²

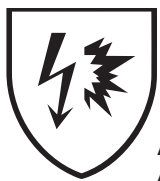


Also ideal as undergloves for our insulated gloves!

Size	Item No.
7/8	4650508
8/9	4650509
9/10	4650510
10/11	4650511

Arc flash gloves, APC 2, HRC 2

- arc flash tested according to IEC 61482-1-1 (ASTM F2675): ATPV 18 cal/cm²
- arc flash tested according to IEC 61482-1-2:2007 APC 2 (class 2)
- additional tested with a higher test level $W_{LBP} = 395$ 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 tactile sensitivity



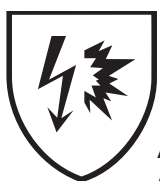
APC 2 / 395 kJ
ATPV: 18 cal/cm²



Size	Item No.
8	4640008
9	4640009
10	4640010
11	4640011
12	4640012

Arc flash gloves, APC 2, HRC 3

- arc flash tested according to IEC 61482-1-1 (ASTM F2675): ATPV 31 cal/cm²
- arc flash tested according to IEC 61482-1-2:2007 APC 2 (class 2)
- additional tested with a higher test level $W_{LBP} = 395$ 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 tactile sensitivity



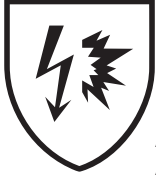
APC 2 / 395 kJ
ATPV: 31 cal/cm²



Size	Item No.
9	4650309
10	4650310
11	4650311

Arc flash gloves, APC 2, HRC 4

- arc flash tested according to IEC 61482-1-1 (ASTM F2675): ATPV 45 cal/cm²
- arc flash tested according to IEC 61482-1-2:2007 APC 2 (class 2)
- additional tested with a higher test level $W_{LBP} = 630$ 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 tactile sensitivity



APC 2 / 630 kJ
ATPV: 45 cal/cm²



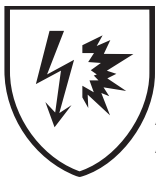
Size	Item No.
8	4650408
9	4650409
10	4650410
11	4650411
12	4650412



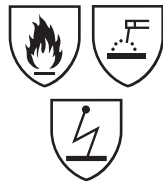
Arc flash shirt "Light", APC 1, HRC 2

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/cm², ELIM = 7 cal/cm²
- also certified 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/m²
- color: navy blue



APC 1
ATPV: 8.0 cal/cm²
ELIM: 7.0 cal/cm²

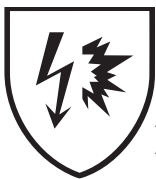


Size	Item No.
XS	4601020
S	4601021
M	4601022
L	4601023

Size	Item No.
XL	4601024
2XL	4601025
3XL	4601026
4XL	4601027

Arc flash shirt, long sleeve, APC 1, HRC 2

- arc flash tested according to IEC 61482-1-2, APC 1 (Class 1)
- additional tested according to IEC 61482-1-1 (ASTM F1959), ATPV: 14 cal/cm², ELIM = 13 cal/cm²
- 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
ATPV: 14 cal/cm²
ELIM: 13 cal/cm²

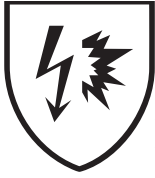


Size	Item No.
S	4601037
M	4601038
L	4601039
XL	4601040

Size	Item No.
2XL	4601041
3XL	4601042
4XL	4601045
5XL	4701066
6XL	4701067

Arc flash polo shirt, APC 1, HRC 2

- arc flash tested according to IEC 61482-1-2, APC 1 (Class 1)
- additionally tested according to IEC 61482-1-1 (ASTM F1959), ATPV: 14 cal/cm², ELIM = 13 cal/cm²
- 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
ATPV: 14 cal/cm²
ELIM: 13 cal/cm²

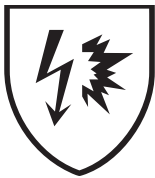


Size	Item No.
S	4601031
M	4601032
L	4601033
XL	4601034

Size	Item No.
2XL	4601035
3XL	4601036
4XL	4601043
5XL	4601066
6XL	4601067

arc flash polo shirt, HiVis yellow, APC 1, HRC 1

- 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/cm²
- 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
ATPV: 5.4 cal/cm²



Polo-Shirt HiVis yellow

Size	Item No.
S	4667001
M	4667002
L	4667003
XL	4667004
2XL	4667005
3XL	4667006
4XL	4667007

Polo-Shirt HiVis orange

Size	Item No.
S	4667021
M	4667022
L	4667023
XL	4667024
2XL	4667025
3XL	4667026
4XL	4667027

Arc flash clothing BSD FuturaTec, APC 2, HRC 3

- innovative single-layer fabric
- very breathable (RET value 8.3 m² PA/W)
- arc flash tested to IEC 61482-1-2, APC 2 (class 2)
- additionally arc flash tested with increased test level WLBP = 410 kJ
- arc flash tested according to IEC 61482-1-1, ATPV 39 cal/cm², ELIM = 33 cal/cm²
- 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/m²
- innovative composite material inherent flame protection 300 g/m²
- very high colour fastness (no bleeding)
- embroidered identification pictograms with class indication
- innovative composite material inherent flame retardant 300 g/m²
- color: dark blue/navy blue

Jacket:

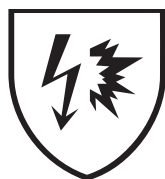
- comfortable cut with extended back, reflective piping, large number of spacious pockets
- innovative zip design (KISS-FLAP)

Dungarees:

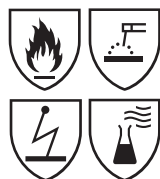
- stretch straps with fixlock buckles, entry through 2 side stretch panels, 2 side seam wing pockets, 2 roomy leg pockets with 1 attached mobile phone pocket, 1 back pocket, 1 folding rule pocket, 1 bib pocket, plastic zip
- legs with reflective stripes
- 2 knee pad pockets with velcro fastener
- pre-shaped leg cut for better ergonomics

Trousers:

- 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



APC 2 / 410 kJ
ATPV: 39 cal/cm²
ELIM: 33 cal/cm²



PYRAD®
PRODUCT TECHNOLOGY



Sizes and item numbers

Jacket



Men's regular

Size	Item No.
42	4616042
44	4616044
46	4616046
48	4616048
50	4616050
52	4616052
54	4616054
56	4616056
58	4616058
60	4616060
62	4616062
64	4616064
66	4616066
68	4616068

Men's short

Size	Item No.
21	4616021
22	4616022
23	4616023
24	4616024
25	4616025
26	4616026
27	4616027
28	4616028
29	4616029
30	4616030

Men's long

Size	Item No.
94	4616094
98	4616098
102	4616102
106	4616106
110	4616110
114	4616114

Women's

Size	Item No.
34	4616034Damen
36	4616036Damen
38	4616038Damen
40	4616040Damen
42	4616042Damen
44	4616044Damen
46	4616046Damen
48	4616048Damen
50	4616050Damen

Dungarees



Men's regular

Size	Item No.
42	4617042
44	4617044
46	4617046
48	4617048
50	4617050
52	4617052
54	4617054
56	4617056
58	4617058
60	4617060
62	4617062
64	4617064
66	4617066
68	4617068

Men's short

Size	Item No.
21	4617021
22	4617022
23	4617023
24	4617024
25	4617025
26	4617026
27	4617027
28	4617028
29	4617029
30	4617030

Men's long

Size	Item No.
94	4617094
98	4617098
102	4617102
106	4617106
110	4617110
114	4617114

Women's

Size	Item No.
34	4617034Damen
36	4617036Damen
38	4617038Damen
40	4617040Damen
42	4617042Damen
44	4617044Damen
46	4617046Damen
48	4617048Damen
50	4617050Damen

Trousers



Men's regular

Size	Item No.
42	4618042
44	4618044
46	4618046
48	4618048
50	4618050
52	4618052
54	4618054
56	4618056
58	4618058
60	4618060
62	4618062
64	4618064
66	4618066
68	4618068

Men's short

Size	Item No.
21	4618021
22	4618022
23	4618023
24	4618024
25	4618025
26	4618026
27	4618027
28	4618028
29	4618029
30	4618030

Men's long

Size	Item No.
94	4618094
98	4618098
102	4618102
106	4618106
110	4618110
114	4618114

Women's

Size	Item No.
34	4618034Damen
36	4618036Damen
38	4618038Damen
40	4618040Damen
42	4618042Damen
44	4618044Damen
46	4618046Damen
48	4618048Damen
50	4618050Damen

Arc flash clothing BSD Comfort blue

Variant APC 1 (single layer):

- arc flash tested according to IEC 61482-1-1: ATPV 13 cal/cm², ELIM = 11 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 1 (class 1)

Variant APC 2 (two-layer):

- arc flash tested according to IEC 61482-1-1: EBT= 22 cal/cm², ELIM = 16 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 2 (class 2)

All Variants:

- excellent breathability, RET-value 4,00 m² PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:2015 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
- proven in industrial washing processes, no washing cycle restrictions
- 320 g/m² fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color: navy/royal blue

Jacket:

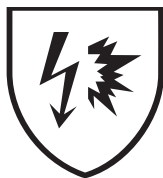
- with high stand up collar, plastic zipper, hidden push-buttons, inside pockets and reflective stripes at the pockets, sleeves and front/back part.
- embroidered signs with class specification at the collar

Dungarees:

- 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 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

Trousers:

- 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 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



Comfort APC 1 **Comfort APC 2**
APC 1 APC 2
ATPV: 13 cal/cm² ATPV: 22 cal/cm²
ELIM: 11 cal/cm² ELIM: 16 cal/cm²



Sizes and item numbers

Jacket APC 1



Men's regular

Size	Item No.
42	4641042
44	4641044
46	4641046
48	4641048
50	4641050
52	4641052
54	4641054
56	4641056
58	4641058
60	4641060
62	4641062
64	4641064
66	4641066
68	4641068

Men's short

Size	Item No.
22	4641022
23	4641023
24	4641024
25	4641025
26	4641026
27	4641027
28	4641028
29	4641029
30	4641030

Men's long

Size	Item No.
94	4641094
98	4641098
102	4641102
106	4641106
110	4641110
114	4641114

Women's

Size	Item No.
34	4641034Damen
36	4641036Damen
38	4641038Damen
40	4641040Damen
42	4641042Damen
44	4641044Damen
46	4641046Damen
48	4641048Damen
50	4641050Damen

Dungarees APC 1



Men's regular

Size	Item No.
42	4642042
44	4642044
46	4642046
48	4642048
50	4642050
52	4642052
54	4642054
56	4642056
58	4642058
60	4642060
62	4642062
64	4642064
66	4642066
68	4642068

Men's short

Size	Item No.
22	4642022
23	4642023
24	4642024
25	4642025
26	4642026
27	4642027
28	4642028
29	4642029
30	4642030

Men's long

Size	Item No.
94	4642094
98	4642098
102	4642102
106	4642106
110	4642110
114	4642114

Women's

Size	Item No.
34	4642034Damen
36	4642036Damen
38	4642038Damen
40	4642040Damen
42	4642042Damen
44	4642044Damen
46	4642046Damen
48	4642048Damen
50	4642050Damen

Trousers APC 1



Men's regular

Size	Item No.
42	4643042
44	4643044
46	4643046
48	4643048
50	4643050
52	4643052
54	4643054
56	4643056
58	4643058
60	4643060
62	4643062
64	4643064
66	4643066
68	4643068

Men's short

Size	Item No.
22	4643022
23	4643023
24	4643024
25	4643025
26	4643026
27	4643027
28	4643028
29	4643029
30	4643030

Men's long

Size	Item No.
94	4643094
98	4643098
102	4643102
106	4643106
110	4643110
114	4643114

Women's

Size	Item No.
34	4643034Damen
36	4643036Damen
38	4643038Damen
40	4643040Damen
42	4643042Damen
44	4643044Damen
46	4643046Damen
48	4643048Damen
50	4643050Damen

Sizes and item numbers

Jacket APC 2



Men's regular

Size	Item No.
42	4651042
44	4651044
46	4651046
48	4651048
50	4651050
52	4651052
54	4651054
56	4651056
58	4651058
60	4651060
62	4651062
64	4651064
66	4651066
68	4651068

Men's short

Size	Item No.
22	4651022
23	4651023
24	4651024
25	4651025
26	4651026
27	4651027
28	4651028
29	4651029
30	4651030

Men's long

Size	Item No.
94	4651094
98	4651098
102	4651102
106	4651106
110	4651110
114	4651114

Women's

Size	Item No.
34	4651034Damen
36	4651036Damen
38	4651038Damen
40	4651040Damen
42	4651042Damen
44	4651044Damen
46	4651046Damen
48	4651048Damen
50	4651050Damen

Dungarees APC 2



Men's regular

Size	Item No.
42	4652042
44	4652044
46	4652046
48	4652048
50	4652050
52	4652052
54	4652054
56	4652056
58	4652058
60	4652060
62	4652062
64	4652064
66	4652066
68	4652068

Men's short

Size	Item No.
22	4652022
23	4652023
24	4652024
25	4652025
26	4652026
27	4652027
28	4652028
29	4652029
30	4652030

Men's long

Size	Item No.
94	4652094
98	4652098
102	4652102
106	4652106
110	4652110
114	4652114

Women's

Size	Item No.
34	4652034Damen
36	4652036Damen
38	4652038Damen
40	4652040Damen
42	4652042Damen
44	4652044Damen
46	4652046Damen
48	4652048Damen
50	4652050Damen

Trousers APC 2



Men's regular

Size	Item No.
42	4653042
44	4653044
46	4653046
48	4653048
50	4653050
52	4653052
54	4653054
56	4653056
58	4653058
60	4653060
62	4653062
64	4653064
66	4653066
68	4653068

Men's short

Size	Item No.
22	4653022
23	4653023
24	4653024
25	4653025
26	4653026
27	4653027
28	4653028
29	4653029
30	4653030

Men's long

Size	Item No.
94	4653094
98	4653098
102	4653102
106	4653106
110	4653110
114	4653114

Women's

Size	Item No.
34	4653034Damen
36	4653036Damen
38	4653038Damen
40	4653040Damen
42	4653042Damen
44	4653044Damen
46	4653046Damen
48	4653048Damen
50	4653050Damen



Arc flash clothing BSD Comfort grey

Variant APC 1 (single layer):

- arc flash tested according to IEC 61482-1-1: ATPV 13 cal/cm², ELIM = 11 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 1 (class 1)

Variant APC 2 (two-layer):

- arc flash tested according to IEC 61482-1-1: EBT= 22 cal/cm², ELIM = 16 cal/cm²
- arc flash tested according to IEC 61482-1-2:2014 APC 2 (class 2)

All Variants:

- excellent breathability, RET-value 4,00 m² PA/W according to EN 31092 / ISO 11092
- heat and flame protection according to EN ISO 11612:2015 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
- proven in industrial washing processes, no washing cycle restrictions
- 320 g/m² fabric, 55% modacrylic, 44% cotton, 1% antistatic component
- color:grey

Jacket:

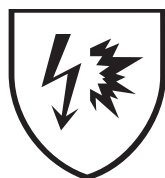
- with high stand up collar, plastic zipper, hidden push-buttons, inside pockets and reflective stripes at the pockets, sleeves and front/back part.
- embroidered signs with class specification at the collar

Dungarees:

- 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 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

Trousers:

- 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 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



Comfort APC 1 **Comfort APC 2**
APC 1 APC 2
ATPV: 13 cal/cm² ATPV: 22 cal/cm²
ELIM: 11 cal/cm² ELIM: 16 cal/cm²



Image source: Ros@now = »kfz-betrieb«



Sizes and item numbers

Jacket APC 1



Men's regular

Size	Item No.
42	4641042grau
44	4641044grau
46	4641046grau
48	4641048grau
50	4641050grau
52	4641052grau
54	4641054grau
56	4641056grau
58	4641058grau
60	4641060grau
62	4641062grau
64	4641064grau
66	4641066grau
68	4641068grau

Men's short

Size	Item No.
22	4641022grau
23	4641023grau
24	4641024grau
25	4641025grau
26	4641026grau
27	4641027grau
28	4641028grau
29	4641029grau
30	4641030grau

Men's long

Size	Item No.
94	4641094grau
98	4641098grau
102	4641102grau
106	4641106grau
110	4641110grau
114	4641114grau

Women's

Size	Item No.
34	4641034grauDamen
36	4641036grauDamen
38	4641038grauDamen
40	4641040grauDamen
42	4641042grauDamen
44	4641044grauDamen
46	4641046grauDamen
48	4641048grauDamen
50	4641050grauDamen

Dungarees APC 1



Men's regular

Size	Item No.
42	4642042grau
44	4642044grau
46	4642046grau
48	4642048grau
50	4642050grau
52	4642052grau
54	4642054grau
56	4642056grau
58	4642058grau
60	4642060grau
62	4642062grau
64	4642064grau
66	4642066grau
68	4642068grau

Men's short

Size	Item No.
22	4642022grau
23	4642023grau
24	4642024grau
25	4642025grau
26	4642026grau
27	4642027grau
28	4642028grau
29	4642029grau
30	4642030grau

Men's long

Size	Item No.
94	4642094grau
98	4642098grau
102	4642102grau
106	4642106grau
110	4642110grau
114	4642114grau

Women's

Size	Item No.
34	4642034grauDamen
36	4642036grauDamen
38	4642038grauDamen
40	4642040grauDamen
42	4642042grauDamen
44	4642044grauDamen
46	4642046grauDamen
48	4642048grauDamen
50	4642050grauDamen

Trousers APC 1



Men's regular

Size	Item No.
42	4643042grau
44	4643044grau
46	4643046grau
48	4643048grau
50	4643050grau
52	4643052grau
54	4643054grau
56	4643056grau
58	4643058grau
60	4643060grau
62	4643062grau
64	4643064grau
66	4643066grau
68	4643068grau

Men's short

Size	Item No.
22	4643022grau
23	4643023grau
24	4643024grau
25	4643025grau
26	4643026grau
27	4643027grau
28	4643028grau
29	4643029grau
30	4643030grau

Men's long

Size	Item No.
94	4643094grau
98	4643098grau
102	4643102grau
106	4643106grau
110	4643110grau
114	4643114grau

Women's

Size	Item No.
34	4643034grauDamen
36	4643036grauDamen
38	4643038grauDamen
40	4643040grauDamen
42	4643042grauDamen
44	4643044grauDamen
46	4643046grauDamen
48	4643048grauDamen
50	4643050grauDamen

Sizes and item numbers

Jacket APC 2



Men's regular

Size	Item No.
42	4651042grau
44	4651044grau
46	4651046grau
48	4651048grau
50	4651050grau
52	4651052grau
54	4651054grau
56	4651056grau
58	4651058grau
60	4651060grau
62	4651062grau
64	4651064grau
66	4651066grau
68	4651068grau

Men's short

Size	Item No.
22	4651022grau
23	4651023grau
24	4651024grau
25	4651025grau
26	4651026grau
27	4651027grau
28	4651028grau
29	4651029grau
30	4651030grau

Men's long

Size	Item No.
94	4651094grau
98	4651098grau
102	4651102grau
106	4651106grau
110	4651110grau
114	4651114grau

Women's

Size	Item No.
34	4651034grauDamen
36	4651036grauDamen
38	4651038grauDamen
40	4651040grauDamen
42	4651042grauDamen
44	4651044grauDamen
46	4651046grauDamen
48	4651048grauDamen
50	4651050grauDamen

Dungarees APC 2



Men's regular

Size	Item No.
42	4652042grau
44	4652044grau
46	4652046grau
48	4652048grau
50	4652050grau
52	4652052grau
54	4652054grau
56	4652056grau
58	4652058grau
60	4652060grau
62	4652062grau
64	4652064grau
66	4652066grau
68	4652068grau

Men's short

Size	Item No.
22	4652022grau
23	4652023grau
24	4652024grau
25	4652025grau
26	4652026grau
27	4652027grau
28	4652028grau
29	4652029grau
30	4652030grau

Men's long

Size	Item No.
94	4652094grau
98	4652098grau
102	4652102grau
106	4652106grau
110	4652110grau
114	4652114grau

Women's

Size	Item No.
34	4652034grauDamen
36	4652036grauDamen
38	4652038grauDamen
40	4652040grauDamen
42	4652042grauDamen
44	4652044grauDamen
46	4652046grauDamen
48	4652048grauDamen
50	4652050grauDamen

Trousers APC 2



Men's regular

Size	Item No.
42	4653042grau
44	4653044grau
46	4653046grau
48	4653048grau
50	4653050grau
52	4653052grau
54	4653054grau
56	4653056grau
58	4653058grau
60	4653060grau
62	4653062grau
64	4653064grau
66	4653066grau
68	4653068grau

Men's short

Size	Item No.
22	4653022grau
23	4653023grau
24	4653024grau
25	4653025grau
26	4653026grau
27	4653027grau
28	4653028grau
29	4653029grau
30	4653030grau

Men's long

Size	Item No.
94	4653094grau
98	4653098grau
102	4653102grau
106	4653106grau
110	4653110grau
114	4653114grau

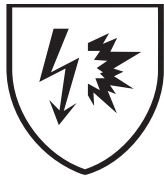
Women's

Size	Item No.
34	4653034grauDamen
36	4653036grauDamen
38	4653038grauDamen
40	4653040grauDamen
42	4653042grauDamen
44	4653044grauDamen
46	4653046grauDamen
48	4653048grauDamen
50	4653050grauDamen

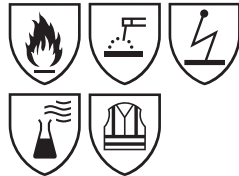


Jacket BSD SoftTec HiVis

- multi-standard clothing, universally applicable
- innovative single-layer fabric 300 g/m²
- highly breathable (RET value 8.3 m² Pa/W)
- arc flash tested according to EN 61482-2: APC 2, ATPV 37 cal/cm², ELIM 34 cal/cm²
- high visibility - classification EN ISO 20471: Class 2
- heat and flame protection according to EN ISO 11612, A1+A2/B1/C1/D2/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 flash protection with ultra-light fabric construction
- lifetime safety thanks to inherent flame retardancy
- special features of the design:
 - extended back section
 - reflective piping
 - innovative zip design (KISS flap)
 - large number of spacious pockets on the jacket
- color: bright yellow / blue, bright orange / blue



APC 2
ATPV: 37 cal/cm²
ELIM: 34 cal/cm²



PYRAD®
PRODUCT TECHNOLOGY



Jacket „yellow“

Size	Item No.
XS	4671042
S	4671044
M	4671048
L	4671052
XL	4671056
2XL	4671060
3XL	4671064
4XL	4671066



Jacket „orange“

Size	Item No.
XS	4626042
S	4626044
M	4626048
L	4626052
XL	4626056
2XL	4626060
3XL	4626064
4XL	4626066

Weatherproof arc flash clothing GORE-TEX Pyrad® BSDshine

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

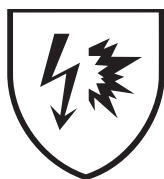
- Arc flash tested according to IEC 61482-1-2, APC 2 (class 2)
- Arc flash tested according to IEC 61482-1-1 (inherent flame retardancy F1959), Arc Rating EBT = 51 cal/cm², ELIM = 42 cal/cm²
- Arc flash tested according to IEC 61482-2
- Weather protection according to DIN EN 343, class 3/3, absolutely rainproof (waterproof > 10 m water column, 100 kPa)
- Heat and flame protection according to DIN EN ISO 11612 A1+A2/B2/C1/D3/E1/F1
- Welding protection according to DIN EN ISO 11611 class 2, A1+A2
- Electrostatic properties according to EN 1149-5.
- Chemical protection according to EN 13034, type 6
- Double-layer arc flash protection in the front and back areas
- Very low weight per unit area, only 340 g/m² (lamine + lining fabric)
- Excellent breathability, RET < 12.8 m² Pa/W (lamine + lining fabric)
- Labelling with standard pictograms
- Colour: warning yellow/navy or warning orange/navy

Jacket:

- High visibility in accordance with DIN EN ISO 20471, class 3
- 2 external pockets, one internal pocket
- Sleeves with internal cuffs (wind protection)
- Optional: hood, fleece jacket available as cold protection to wear underneath

Trousers:

- High visibility in accordance with DIN EN ISO 20471, class 1
- 2 external pockets
- The trousers are designed as overtrousers
- The trousers can be worn as waistband trousers or dungarees; the bib is removable and the trousers have belt loops



APC 2
EBT: 51 cal/cm²
ELIM: 42 cal/cm²



PYRAD®
PRODUCT TECHNOLOGY

Jacket „yellow“

Size	Item No.
S	4615100
M	4615101
L	4615102
XL	4615103
2XL	4615104
3XL	4615105
4XL	4615107



Trousers „yellow“

Size	Item No.
S	4615200
M	4615201
L	4615202
XL	4615203
2XL	4615204
3XL	4615205
4XL	4615207





Jacket „orange“

Size	Item No.
S	4615300
M	4615301
L	4615302
XL	4615303
2XL	4615304
3XL	4615305
4XL	4615307



Trousers „orange“

Size	Item No.
S	4615400
M	4615401
L	4615402
XL	4615403
2XL	4615404
3XL	4615405
4XL	4615406

Optionally available

Hood for GORE-TEX Pyrad® BSDshine weatherproof arc flash jacket



BSD fleece jacket „Polar“

The fleece jacket is suitable for wearing under other garments (weatherproof parka) or on its own to protect against the cold.

Please note: This jacket is not personal protective equipment and has no protective functions!

Fleece jacket

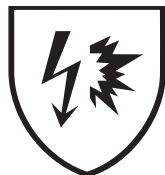
Size	Item No.
S	4615000
M	4615001
L	4615002
XL	4615003
2XL	4615004
3XL	4615005
4XL	4615006





Overlay arc flash clothing HRC 2

- arc flash tested according to ASTM F1959, ATPV: 13 cal/cm²
- also certified 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/m² (10 oz/yd²) per layer: cotton, carbon
- color: navyblue



ATPV: 13 cal/cm²



Size	Item No. jacket HRC 2	Item No. dungarees HRC 2
S	4655050	4655070
M	4655051	4655071
L	4655052	4655072
XL	4655053	4655073
2XL	4655054	4655074
3XL	4655055	4655075

Kit HRC 2

Kit-HRC 2 consists of:

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

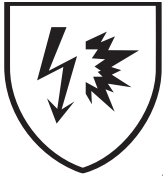
- arc flash hood with integrated hard hat and bracket tested according to ASTM F2178, ATPV: 13 cal/cm²
- arc flash tested according to ASTM F1959, ATPV: 13 cal/cm²
- also certified according to ASTM F1506, CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- single layer fabric, 350 g/m² (10 oz/yd²) per layer: cotton, carbon
- bag to store or transport the Kit
- color: navyblue

Size	Item No.
S	4100210
M	4100211
L	4100212
XL	4100213
2XL	4100214
3XL	4100215



Overlay arc flash clothing HRC 3

- arc flash tested according to ASTM F1959, ATPV: 28 cal/cm²
- also certified 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/m² (10 oz/yd²): cotton, carbon
 - inner layer 250 g/m² (7.4 oz/yd²): cotton, polyamid, carbon
- color: navyblue



ATPV: 28 cal/cm²



Size	Item No. jacket HRC 3	Item No. dungarees HRC 3
S	4655080	4655090
M	4655081	4655091
L	4655082	4655092
XL	4655083	4655093
2XL	4655084	4655094
3XL	4655085	4655095

Kit HRC 3

Kit-HRC 3 consists of:

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

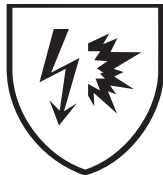
- arc flash hood with integrated hard hat and bracket tested according to ASTM F2178, ATPV: 28 cal/cm²
- arc flash tested according to ASTM F1959, ATPV: 28 cal/cm²
- arc flash tested according to CSA Z462, OSHA 1910.269
- for the highest arc flash protection
- to wear over the normal PPE or clothing
- double layer fabric:
 - outer layer 350 g/m² (10 oz/yd²): cotton, carbon
 - inner layer 250 g/m² (7.4 oz/yd²): cotton, polyamid, carbon
- bag to store or transport the Kit
- color: navyblue

Size	Item No.
S	4100310
M	4100311
L	4100312
XL	4100313
2XL	4100314
3XL	4100315



Overlay arc flash clothing HRC 4

- arc flash tested according to IEC 61482-1-1: and ASTM F1959/F1959M-14: ATPV 47 cal/cm², ELIM = 41 cal/cm²
- arc flash tested according to IEC 61482-2:2009 APC 2 (class 2)
- additional tested with higher test level WLBP = 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 certified 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/m² (10 oz/yd²) per layer: cotton, carbon
- color: navyblue



APC 2 / 410 kJ
ATPV: 47 cal/cm²
ELIM: 41 cal/cm²



Size	Item No. jacket HRC 4	Item No. dungarees HRC 4
S	4655030	4655040
M	4655031	4655041
L	4655032	4655042
XL	4655033	4655043
2XL	4655034	4655044
3XL	4655035	4655045
4XL	4655036	4655046

Kit HRC 4

Kit-HRC 4 consists of:

- 1 arc flash hood HRC 4
- 1 arc flash jacket HRC 4
- 1 arc flash dungarees HRC 4
- 1 pair arc flash gloves HRC 4
- 1 storage bag

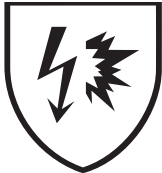
- arc protection hood with integrated hard hat and bracket arc flash tested according to ASTM F2178, ATPV: 47 cal/cm²
- arc flash tested according to DGUV GS-ET-29, APC 2 (class 2)
- additional tested with a higher test level W(LBP)= 630 kJ
- garments arc flash tested according to IEC 61482-1-1: and ASTM F1959/F1959M-14: ATPV 47 cal/cm², ELIM = 41 cal/cm²
- arc flash tested according to IEC 61482-2:2009 APC 2 (class 2)
- additional tested with higher test level WLBP = 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 tested 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/m² (10 oz/yd²) per layer: cotton, carbon
- bag to storage or transport the Kit
- color: navyblue



Size	Item No.
S	4100510
M	4100511
L	4100512
XL	4100513
2XL	4100514
3XL	4100515
4XL	4100516

Overlay arc flash clothing HRC 4 Power

- arc flash tested according to IEC 61482-1-1: ASTM F1959, ATPV: 41 cal/cm², ELIM = 29 cal/cm²
- 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 m² 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/m² (12 oz/yd²)
- outer layer 240 g/m², 75% aramid (Nomex®), 13% modacrylic, 10.5% cotton, 1.5% antistatic component
- inner layer 170 g/m², 100% aramid (Nomex®)
- color: greyblue



APC 2
ATPV: 40 cal/cm²
ELIM: 29 cal/cm²



Size	Item No. jacket Power	Item No. dungarees Power
S	4655010	4655020
M	4655011	4655021
L	4655012	4655022
XL	4655013	4655023
2XL	4655014	4655024
3XL	4655015	4655025

Kit Power HRC 4

Kit-Power consists of:

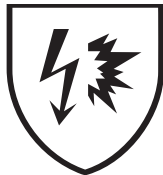
- 1 arc flash hood HRC 4 Power
- 1 arc flash jacket HRC 4 Power
- 1 arc flash dungarees HRC 4 Power
- 1 pair arc flash gloves HRC 4 Power
- 1 storage bag
- arc flash hood with integrated hard hat and bracket tested according to ASTM F2178, ATPV: 40 cal/cm²
- arc flash tested according to DGUV GS-ET-29, 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/cm², ELIM = 29 cal/cm²
- 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 m² Pa/W
- for the highest arc flash protection
- clothing industry washing suitable according to EN ISO 15797
- ultra light grammage: 410g/m² (12 oz.yd²)
- outer layer 240 g/m², 75% aramid (Nomex®), 13% modacrylic, 10.5% cotton, 1.5% antistatic component
- inner layer 170 g/m², 100% aramid (Nomex®)
- bag to transport and storage the KIT
- color: greyblue



Size	Item No.
S	4100410
M	4100411
L	4100412
XL	4100413
2XL	4100414
3XL	4100415

Arc flash coat HRC 4

- arc flash tested according to IEC 61482-1-1: and ASTM F1959/ F1959M-14: ATPV 47 cal/cm², ELIM = 41 cal/cm²
- arc flash tested according to IEC 61482-2:2009 APC 2 (class 2)
- additional tested with higher test level WLBP = 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/m² per layer: cotton, antistatic component
- color: navy / royal blue or grey



APC 2 / 410 kJ
ATPV: 47 cal/cm²
ELIM: 41 cal/cm²

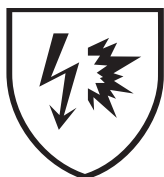


Size	Item No. coat blue	Item No. coat grey
S	4655060	4655060grau
M	4655062	4655062grau
L	4655064	4655064grau
XL	4655066	4655066grau
2XL	4655068	4655068grau
3XL	4655069	4655069grau
4XL	4655078	4655078grau

Accessories

Belt

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



APC 2

Length	Item No.
90 cm	4601320
100 cm	4601321
110 cm	4601322
120 cm	4601323
130 cm	4601324
140 cm	4601325
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)



Item No. **4653112**
knee pads 250 x 135 mm, grey



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

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

