

Dromex



ARC ERGOS2 RANGE



ARC ERGOS2

Description

The Dromex® BSD ErgoS 2plus 12cal/cm² and 26 cal/cm² face shields is designed for optimum protection against thermal and impact hazards of arc flash.

Features an extended clear length visor and transparent chin guard, the ErgoS 2plus offers optimized weight balance and no time limit durability, making the ErgoS 2plus visor, the ideal solution when used by electrical workers and electricians working in the vicinity of live parts or with high voltage connections.

The electricians face shield ErgoS 2plus is fitted with a universal bracket for use with front brim arc rated dedicated hard hats only, according to EN 50365 or EN 397 standards.

This face shield is also available in the helmet slotted version, in 12 cal/cm² only, for compatibility with EN approved arc rated dedicated hard hats as well.

Because of its high arc protection level against thermal hazards, the face shield can be used at electrical installations with higher short circuit energy up to WLBP = 318 kJ according to risk assessment pursuant German DGUV-I 203-077 and according to the guidelines IEEE 1584 and NFPA 70E.

This face shield also provides protection against molten metals and hot solids, tested to EN 166 as follows:

Test 1:

Tested with molten grey cast iron at temperatures of 1450°C.
Tested with molten aluminium at temperatures of 750°C.
To pass the test no metal should stick to the surface.

Test 2:

Tested against complete penetration of by hot solids, with a hot steel ball (temperature of 900°C, diameter of 6 mm) placed on the surface of the visor. This test passes when, the steel ball does not penetrate through the full visor before 7 seconds.

These tests are threshold values, but does not determine any maximum temperature the visor can withstand, due to application and environments. It is recommended to trail this visor before use for hazards of molten metal and hot solids.

Special Instructions

No protection is given unless the visor is correctly fitted and in the lowered position. Susceptible individuals may experience an allergic reaction to those parts of the face shield that encounter the wearer's skin. If this is the case, leave the hazard area, remove the face shield and seek medical advice.

None of the materials used in the manufacture of the face shield are known to adversely affect user hygiene or health. The visor can be raised or lowered as required by loosening the two side pivot nuts.

These face shields are suitable for use to the lowest marking on the bow guard or the visor. Do not use if items appear damaged or parts are missing. The attention of users is also drawn to the dangers of modifying or removing any of the original component parts of the face shield, other than as recommended by the face shield manufacturer.

Shields should not be adapted for the purpose of fitting attachments in any way not recommended by the face shield manufacturer. Do not apply paint, solvents, adhesives or self-adhesive labels, except in accordance with the instructions of the face shield manufacturer.

Compliance & Conformity

Manufactured to DIN EN 166:2001 as per the requirements 89/686/EEC, EC type examination and EU Directive 89/686/EWG
DIN EN 170: 2002
E DIN 58118: 2011
DGUV GS-ET-29: 2011
ASTM F2178
ANSI/ ISEA Z.87.1-2010

Specifications

Style:

Visor, with visor carrier and headband, edge protection and chin protector
Special coating polycarbonate
Ø22mm steel ball @100±2N
> 95 %

Lens:

Minimum robustness:
Colour rendering index:
Resistance to ultraviolet radiation (oculars only):
Resistance to corrosion:
Resistance to ignition:

Luminous transmittance NA: 42 %
No corrosion (8ofEN168)
No Ignition (7ofEN168)

High speed particles
@ low energy impact:

B - Ø6mm steel ball (0.86g)
@ 120(+3 -0) m/s

Optical Class:

1 - Refractive power
(S±0.06, A0.06 Δprismatic,
BO 0.75, BI 0.75, V 0.25)

Lateral vision:

180°

Compatibility:

Other Dromex PPE

Other tests and approvals:

8 ~Short circuit electric arc
3 ~Protection against splashes of liquids
9 ~Protection against molten metals and hot solids.

Helmet slotted version:

Part no. ARC ERGOS2 12-EU

Packaging, Storage & Obsolescence

Dromex® part numbers, ARC ERGOS2 12 and ARC ERGOS2 face shields are packed individually in a protective bag marked with the item information. When not in use or during transportation the visor must be stored in the protective visor bag provided, protecting visor from damage, scratching and direct sun.

Plastic materials are subject to natural ageing. Frequent use and direct solar radiation can cause accelerated aging of plastics, should the face-shield show indications of aging, the face shield should not be used.

Face shields should be inspected for mechanical damage before they are used.

Should the visor be cracked or show mechanical damage, the face shield should not be used.

The most common defects are normally caused by small scratches to the visor.

The radiation technology used by the BSD face shield will remain effective, and the protection level will not be influenced, even if small scratches are visible on the visor surface. This was proven during tests performed in accordance with the requirements of DGUV GS-ET-29, Class 2, where the scratched visor had no influence on the protection level provided by the face shield.

Cleaning & Maintenance

Rinse with mild detergent in clean water. To avoid scratching of the visor please dry the visor by using air. Common disinfectants can be used.

Shelf life

For the use of the visors (lenses), there is no time limitation.

Materials

None of the materials used in the manufacture are known to adversely affect the hygiene or health.

Technology of visors for face shields and hoods

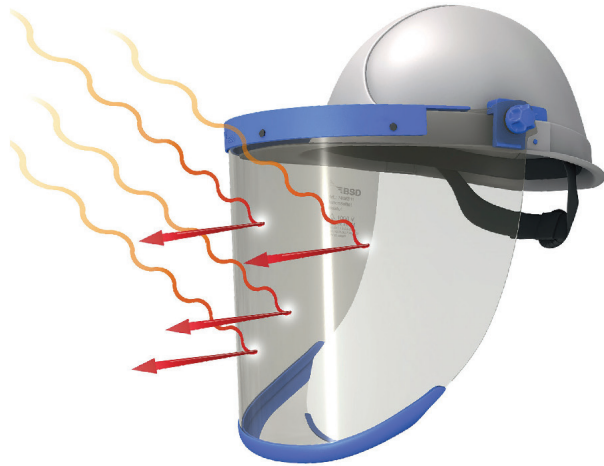
Protection by reflection

Special coating technology of the polycarbonate carrier provides unique optical properties and reflects thermal radiation

- None tinted visor
- Realistic colour reproduction > 95% reduced.

During daily use there is no absorption of light components by the visor:

- No optical aging of the visor
- Long life, time is no weed out criteria.



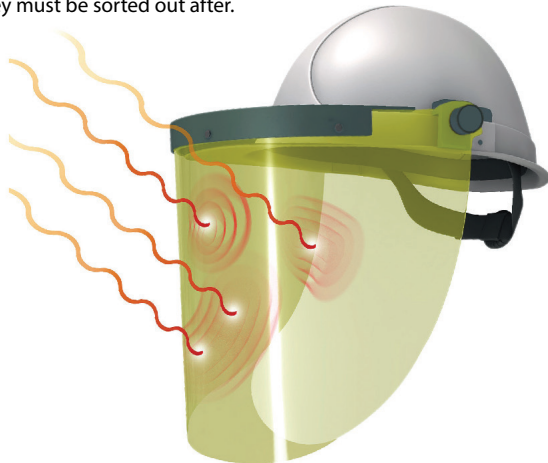
Protection by absorption

Polycarbonate lenses working with absorption principles are mixed with special colour additives that absorb the thermal radiation (IR and UV)

- Yellow or green visor
- The colour rendering index is significantly.

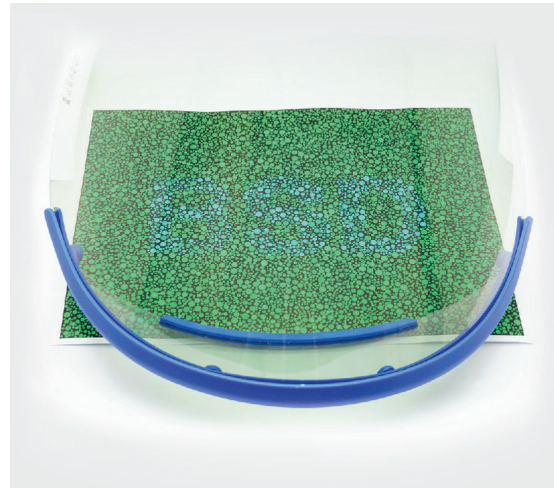
Daily sunlight and ambient light are constantly absorbed and stored by the visor

- visor is aging, protective properties get worse
- They must be sorted out after.

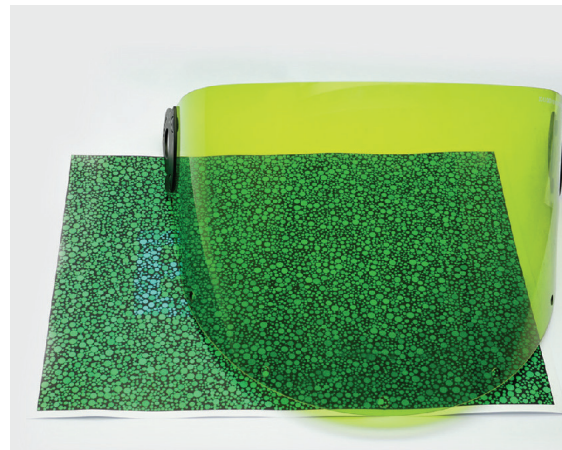


The lense makes the difference!

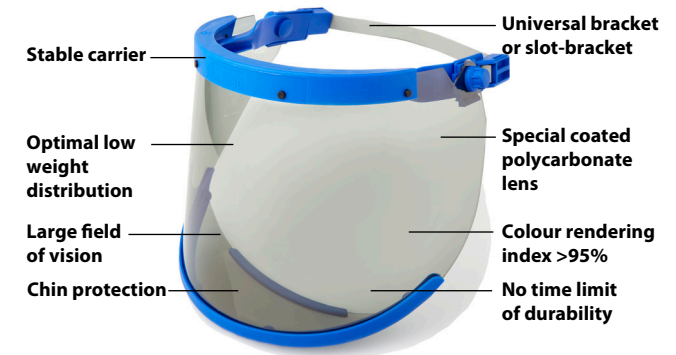
Dromex Visor with



Face shield with green tinted visor



Materials



Marking

ATPV 12.0 cal/cm²



ErgoS2 Power Uni

Art.: 7406511

2017/365041

1000 V

CE 1883

2C-2 BSD 1B8-2-2 3-9

ANSI/ISEA Z 87.1

BSD Z 87+U 2

ATPV 12.0 cal/cm²

Made in Germany

ATPV 26 cal/cm²



ErgoS2 Power Uni

Art.: 7406511

2017/365041

1000 V

CE 1883

2C-2 BSD 1B8-2-2 3-9

ANSI/ISEA Z 87.1

BSD Z 87+U 2

ATPV 26 cal/cm²

Made in Germany

Disposal

All industrial waste should be disposed of correctly per local regulations and good disposal practice. Facial protective devices should be disposed of considering the hazardous substances they were used for. Please consider recycling.



So why Face shield from Dromex?

- Work safer
Because of real view of workplace environment
- Safe money
Because of long life use.

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