

# Industrial Safety



Hard hat brackets // Headgears // Heat protection // Face shields // Arc flash protection

**RUDOLF UHLEN** GmbH

**Aischa**





Plant 2



Plant 1



**Dear business friends,**

Allow me to introduce myself and my company. My name is Volker Fiedler and I have been working as a mechanical engineer for more than 25 years in the occupational health and safety sector.

19 years ago I started working for myself and took over the Rudolf Uhlen occupational health and safety company in Haan in the Rhineland. Rudolf Uhlen has been manufacturing personal safety equipment for various applications for more than 50 years. Under my direction, the company has grown from a "one-man operation" to a company with 18 employees.

Our production especially focuses on **face and eye protection**. The standard product range covers the fields of **hard hat brackets, headgear, face shields** against mechanical and chemical influences, **gold-coated face shields as infrared protection, mesh visors, welding goggles** and **electrician's face shields**. In addition to this extensive standard program, I also want to provide solutions for the various safety requirements of special work environments and meet individual customer requirements. I believe that two principles are important for customer satisfaction:

- 1. The quality of the products must be right.**
- 2. The customer must be involved in the design process.**

Benefit from my years of experience in all areas of face protection and contact me.

**I look forward to a constructive conversation.**

Sincerely,  
Volker Fiedler

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## Combination possibilities for any application area

### Hard hat brackets for all hard hat models



Universal hard hat bracket



Hard hat bracket with cover



Hard hat bracket for full brim helmet



Hard hat bracket, wide shape

### Face shields suitable for hard hat brackets and headgear



Face shield made of polycarbonate, clear



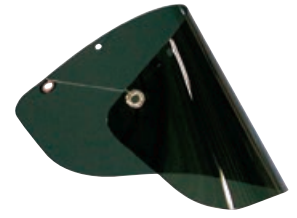
Face shield made of polycarbonate, gold-coated



Face shield made of polycarbonate with PVC-bib



Face shield made of polycarbonate, fully enclosed



Face shield made of cellulose acetate, protection class 5

### Wire mesh visors - products against heat radiation



Wire mesh visor with window



Wire mesh visor with window covered with aluminised fabric



Wire mesh visor



Flip-down goggles for direct helmet mounting

### Protective filters



Protective filters of various types



Laminated glasses for aluminium window frames

### Welding protection



Leather welding mask



Welding shield for hard hat bracket



### Headgears for work areas where hard hats are not mandatory



Hard hat bracket with eccentric knob fastener



Ear protection hard hat bracket



Headgear with forehead guard



Headgear without forehead guard with PC visor

If you wish, we will manufacture face shields in accordance with your individual requirements!



Face shield made of polycarbonate with aluminium rail



Face shield made of polycarbonate for ear protection hard hat bracket



Face shield made of polycarbonate 2 mm for firefighting

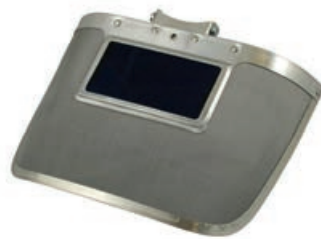


Firefighting hard hat bracket with clip fastener

### Fire brigade hard hat bracket



Flip-down goggles on a hard hat bracket



New Bochum goggles 300 x 180 mm



New Bochum goggles 200 x 135 mm



New Bochum goggles 300 x 180 mm made of aluminium sheet metal

### Arc flash protection



Electrician's face shield 4 kA



Electrician's face shield 7 kA

### Hard hats



Schuberth hard hat BOP



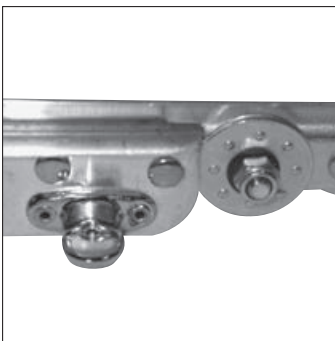
Voss hard hat INAP Master

## Standard hard hat brackets

### Application example for hard hat bracket with PC-face shield

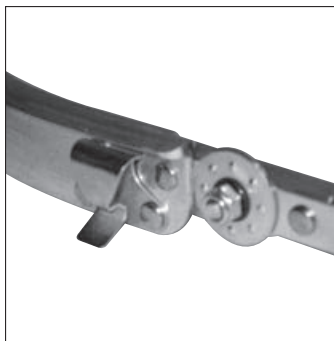


### Two different attachment systems for the face shields



#### Rotating fastener

With the rotating fastener, the face shield is placed on the swivel pin and locked with a rotating knob.



#### Clip fastener

With the clip fastener, the faceshield is inserted under a specially shaped spring steel clip, until it clicks into the attachment hole. The clip fastener is a reasonably priced and very robust alternative attachment system.



Matching face shields can be found on pages 16–25.

## Universal hard hat bracket

### Article no. GFKHH003

- The universal hard hat bracket fits all standard hard hats
- The bracket is easy to attach to the hard hat
- Secure fit on the hard hat due to a powerful tension spring
- The bracket is made of robust aluminium profiles and is heat and corrosion resistant
- The broad overlapping of the profiles ensures a good seal at the top
- The face shields can be lifted into 4 positions
- The face shields are attached with a rotating fastener or with a clip fastener

Design	
Non-fogging	
Protection against spattering	
Protection against splinters	
Protection against glare	
UV-protection	
Chemical protection	■
Hot areas	■
Cold areas	■



Article no.	Description
GFKHH003	Universal hard hat bracket
GFKHH003-1	Universal hard hat bracket with clip fastener
GFKHH003-3	Universal hard hat bracket with foam in the U-profile



## Aluminium hard hat bracket with cover

### Article no. GFKHH001

- The aluminium hard hat bracket with cover fits all standard hard hats
- The bracket is easy to attach to the hard hat
- Secure fit on the hard hat due to a powerful tension spring
- The bracket is made of robust aluminium profiles and is heat and corrosion resistant
- The broad overlapping of the profiles ensures a good seal at the top. The cover provides an additional seal against dust and debris
- The face shields can be lifted into 4 positions
- The face shields are attached with a rotating fastener or with a clip fastener

Design	
Non-fogging	
Protection against spattering	
Protection against splinters	
Protection against glare	
UV-protection	
Chemical protection	■
Hot areas	■
Cold areas	■



Article no.	Description
GFKHH001	Aluminium hard hat bracket
GFKHH001-1	Aluminium hard hat bracket with clip fastener
GFKHH001-3	Aluminium hard hat bracket with foam in the U-profile



## Foam in the U-profile

### Foam in the U-profile

The U-profile of the hard hat bracket can be sealed with heat-resistant foam. This prevents dust or dirt particles collecting in the U-profile and possibly trickling into the face of the person wearing it.



## Hard hat bracket for all hard hat models

### Universal hard hat bracket with eccentric knob fastener



Design		Article no. GFKHH004	
Non-fogging		■	The universal hard hat bracket fits all standard hard hats
Protection against spattering		■	The bracket is easy to attach to the hard hat
Protection against splinters		■	Secure fit on the hard hat due to a powerful tension spring
Protection against glare		■	The bracket is made of robust aluminium profiles and is heat and corrosion resistant
UV-protection		■	The broad overlapping of the profiles ensures a good seal at the top
Chemical protection		■	The face shields can be lifted into 4 positions
Hot areas		■	The attachment with an eccentric knob is designed for face shields with oblong holes GFKVI016-2 (page 20)
Cold areas			
		Article no.	Description
		■ ■ ■	GFKHH004 Universal hard hat bracket with eccentric knob fastener
		■ ■ ■	GFKHH004-3 Universal hard hat bracket with eccentric knob fastener and foam in the U-profile

### Aluminium hard hat bracket for full brim helmets



Design		Article no. GFKHH005-2	
Non-fogging		■	The aluminium hard hat bracket fits current full brim helmets (Schuberth SUP)
Protection against spattering		■	The bracket is easy to attach to the hard hat
Protection against splinters		■	Secure fit on the hard hat due to a powerful tension spring
Protection against glare		■	The bracket is made of robust aluminium profiles and is heat and corrosion resistant
UV-protection		■	The broad overlapping of the profiles ensures a good seal at the top
Chemical protection		■	The face shields can be lifted into 4 positions
Hot areas		■	The face shields are attached with a rotating fastener
Cold areas			
		Article no.	Description
		■ ■ ■	GFKHH005-2 Aluminium hard hat bracket for full brim helmets
		■ ■ ■	GFKHH005-4 Aluminium hard hat bracket for full brim helmets with foam in the U-profile

### Aluminium hard hat bracket, wide shape, for IRIS II helmet



Design		Article no. GFKHH006	
Non-fogging		■	The aluminium hard hat bracket fits the IRIS II helmet
Protection against spattering		■	The bracket is easy to attach to the hard hat
Protection against splinters		■	Secure fit on the hard hat due to a powerful tension spring
Protection against glare		■	The bracket is made of robust aluminium profiles and is heat and corrosion resistant
UV-protection		■	The broad overlapping of the profiles ensures a good seal at the top
Chemical protection		■	The face shields can be lifted into 4 positions
Hot areas		■	The face shields are attached with a rotating fastener
Cold areas			
		Article no.	Description
		■ ■ ■	GFKHH006 Aluminium hard hat bracket for IRIS II helmet
		■ ■ ■	GFKHH006-3 Aluminium hard hat bracket for IRIS II helmet with foam in the U-profile



Matching face shields can be found on pages 16–25.

## Hard hat bracket for Voss INTEX and INAP-PCG helmets

### Article no. GFKHH008

- The aluminium hard hat bracket fits the Voss INTEX/INAP-PCG helmets
- The bracket is easy to attach to the hard hat
- Secure fit on the hard hat due to a powerful tension spring
- The bracket is made of robust aluminium profiles and is heat and corrosion resistant
- The broad overlapping of the profiles ensures a good seal at the top
- The face shields can be lifted into 4 positions
- The face shields are attached with a rotating fastener

Design	
Non-fogging	
Protection against spattering	
Protection against splinters	
Protection against glare	
UV-protection	
Chemical protection	■
Hot areas	■
Cold areas	■

Article no.	Description
GFKHH008	Aluminium hard hat bracket for Voss INTEX/INAP-PCG helmets
GFKHH008-3	Aluminium hard hat bracket for Voss INTEX/INAP-PCG helmets with foam in the U-profile



## Aluminium hard hat bracket for MSA helmets

### Article no. GFKHH012

- The aluminium hard hat bracket fits MSA helmets
- The bracket is easy to attach to the hard hat
- Secure fit on the hard hat due to a powerful tension spring
- The bracket is made of robust aluminium profiles and is heat and corrosion resistant
- The broad overlapping of the profiles ensures a good seal at the top
- The face shields can be lifted into 4 positions
- The face shields are attached with a rotating fastener

Design	
Non-fogging	
Protection against spattering	
Protection against splinters	
Protection against glare	
UV-protection	
Chemical protection	■
Hot areas	■
Cold areas	■

Article no.	Description
GFKHH012	Aluminium hard hat bracket for MSA helmets
GFKHH012-3	Aluminium hard hat bracket for MSA helmets with foam in the U-profile



## Aluminium hard hat bracket for Centurion Vulcan 12/25 and UVEX Airwing helmets

### Article no. GFKHH015

- The aluminium hard hat bracket fits the Centurion Vulcan 12 and 25 and UVEX AIRWING helmets
- The bracket is easy to attach to the hard hat
- Secure fit on the hard hat due to a powerful tension spring
- The bracket is made of robust aluminium profiles and is heat and corrosion resistant
- The broad overlapping of the profiles ensures a good seal at the top
- The face shields can be lifted into 4 positions
- The face shields are attached with a rotating fastener

Design	
Non-fogging	
Protection against spattering	
Protection against splinters	
Protection against glare	
UV-protection	
Chemical protection	■
Hot areas	■
Cold areas	■

Article no.	Description
GFKHH015	Aluminium hard hat bracket for Centurion Vulcan 12 and 25
GFKHH015-3	Aluminium hard hat bracket for Centurion Vulcan 12 and 25 with foam in the U-profile



Hard hat brackets for helmets with mounted ear muffs

Application example for ear protection hard hat bracket



## Details of the ear protection hard hat bracket



### Custom-fit face shield

The face shields for the ear protection hard hat brackets are recessed in the area of the ear muffs. Matching face shields can be found on page 19.



### Offset grid

The folding joint with the 4-point grid is offset outside the area of the ear protection.



Matching face shields can be found on page 19.

## Ear protection hard hat bracket for standard helmets

### Article no. GFKHH003 KGS

- The aluminium hard hat bracket fits all standard hard hats
- The bracket is easy to attach to the hard hat
- Secure fit on the hard hat due to a powerful tension spring
- The bracket is made of robust aluminium profiles and is heat and corrosion resistant
- The broad overlapping of the profiles ensures a good seal at the top
- The face shields can be lifted into 4 positions
- The face shields are attached with a rotating fastener or with a clip fastener
- All standard face shields and the special ear protection face shields fit on the attachments

Design	
Non-fogging	
Protection against spattering	
Protection against splinters	
Protection against glare	
UV-protection	
Chemical protection	
Hot areas	■
Cold areas	■



Article no.	Description
GFKHH003 KGS	Ear protection hard hat bracket for standard helmets
GFKHH003-3 KGS	Ear protection hard hat bracket for standard helmets with foam in the U-profile



## Ear protection hard hat bracket for 3M helmet G3000

### Article no. GFKHH002 KGS

- The aluminium hard hat bracket fits the 3M helmet G3000
- The bracket is easy to attach to the hard hat
- Secure fit on the hard hat due to a powerful tension spring
- The bracket is made of robust aluminium profiles and is heat and corrosion resistant
- The broad overlapping of the profiles ensures a good seal at the top
- The face shields can be lifted into 4 positions
- The face shields are attached with a rotating fastener or with a clip fastener
- All standard face shields and the special ear protection face shields fit on the attachments

Design	
Non-fogging	
Protection against spattering	
Protection against splinters	
Protection against glare	
UV-protection	
Chemical protection	
Hot areas	■
Cold areas	■



Article no.	Description
GFKHH002 KGS	Ear protection hard hat bracket for 3M helmet G3000
GFKHH002-3 KGS	Ear protection hard hat bracket for 3M helmet G3000 with foam in the U-profile



## Details of the ear protection hard hat bracket



### Seal from above

The T-profile is extended towards the front with a covering made of aluminium sheet. This enables all standard face shields to be attached to the ear protection hard hat bracket.



### Completely variable

Besides the standard helmets, the ear protection hard hat bracket can also be supplied for many other helmets available on the market (3M, Centurion, Voss INTEX/INAP-PCG).

## Firefighting accessories

### Application example for firefighting hard hat bracket



### Hard hat bracket for mining



#### Design

#### Article no. GFKHH009

Non-fogging	Protection against splattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas

- The mining hard hat bracket fits all standard hard hats
- The bracket is easy to attach to the hard hat
- Secure fit on the hard hat due to a powerful tension spring
- The bracket is made of robust, black-painted aluminium profiles and is heat and corrosion resistant
- The broad overlapping of the profiles ensures a good seal at the top
- Foam is glued into the U-channel for an additional seal
- Due to a special mechanism, the face shield can also be lifted and locked with a miner's lamp attached

#### Article no. Description

■ ■ ■	GFKHH009	Hard hat bracket for mining
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## Firefighting hard hat bracket

### Article no. GFKHH052

- The aluminium hard hat bracket fits on the firefighting hard hat
- The bracket is easy to attach to the hard hat
- Secure fit on the hard hat due to a stiffened tension spring
- The bracket is made of robust aluminium profiles and is heat and corrosion resistant
- The broad overlapping of the profiles ensures a good seal at the top
- The face shields can be lifted into 4 positions
- The face shields are attached with a rotating fastener or with a clip fastener

### Design

Non-fogging	
Protection against spattering	
Protection against splinters	
Protection against glare	
UV-protection	
Chemical protection	
Hot areas	■
Cold areas	■



Article no.	Description
GFKHH052	Firefighting hard hat bracket
GFKHH052-1	Firefighting hard hat bracket with clip fastener



## Face shield made of PC 2 mm for the firefighting hard hat bracket

### Article no. GFKVI051

- The face shield fits on the firefighting hard hat bracket
- It is made of 2 mm thick polycarbonate
- The face shield has 5 ventilation holes on each side. This prevents the face shield from fogging quickly
- Excellent optical quality
- High impact strength (B – 120 m/s)
- Good UV protection
- High resistance to temperature extremes approx. -50°C to +135°C

### Design

Non-fogging	
Protection against spattering	
Protection against splinters	
Protection against glare	
UV-protection	
Chemical protection	
Hot areas	■
Cold areas	■



Article no.	Description	Dimensions
GFKVI051	PC-face shield for the firefighting hard hat bracket	440 x 145 x 2 mm



## Protective visor made of wire cloth for the firefighting hard hat bracket

### Article no. BFKBB005-2

- The wire mesh shield fits on the firefighting hard hat bracket
- It is made of galvanized iron wire cloth
- The wire cloth has a small mesh size
- The inside of the visor is blackened so that the wearer is not blinded by glare
- The wire mesh shield is used as a forestry visor

### Design

Non-fogging	
Protection against spattering	
Protection against splinters	
Protection against glare	
UV-protection	
Chemical protection	
Hot areas	■
Cold areas	■



Article no.	Description	Dimensions
BFKBB005-2	Protective visor made of wire cloth for firefighting hard hat bracket	300 x 180 mm

## Headgear with forehead guard

### Application example for a headgear with forehead guard



### Details of the headgear with forehead guard

The headgear with forehead guard is available with various shield retainers. All of our standard face shields fit the headgear. Upon request it is also possible to supply versions for face shields with an elongated hole.



GFKKH200 (Standard)



GFKKH200-1



GFKKH200-2

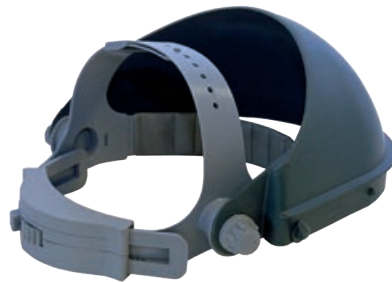


Matching face shields can be found on pages 16–25.

**Note**

**Absolutely compatible**

All of our face shields fit both the headgear with forehead guard as well as the hard hat brackets. This reduces your warehouse expenses. In addition, the standard attachment makes simple and uniform utilization of brackets possible.



**Headgear with forehead guard**

**Article no. GFKKH200**

- Individually adjustable, comfortable headgear
- The forehead guard extends well above the head and is made of high-quality polypropylene
- The face shields are attached with an eccentric knob to the forehead guard and can be lifted
- The head width is adjusted by means of a ratchet wheel
- The head height can be adjusted with a perforated strip
- The forehead padding is replaceable

**Design**

Non-fogging	
Protection against spattering	■
Protection against splinters	■
Protection against glare	■
UV-protection	■
Chemical protection	■
Hot areas	■
Cold areas	■



**Article no. Description**

GFKKH200	Headgear with forehead guard
GFKKH200-1	Headgear with forehead guard for face shield GFKVI016-2
GFKKH200-2	Headgear with forehead guard for face shield GFKVI032

**Headgear without forehead guard**

**Article no. GFKKH100 + GFKVI100**

- Individually adjustable, comfortable headgear
- The head width is adjusted by means of a ratchet wheel
- The head height can be adjusted with a perforated strip
- The forehead padding is replaceable
- The face shield is made of 1 mm thick polycarbonate
- The face shield can be lifted and locked in any position by a threaded connector
- Excellent optical quality
- High resistance to temperature extremes approx. -50°C to +135°C
- Good UV protection
- High impact strength (B – 120 m/s)
- Additional protection of the forehead due to the extended face shield

**Design**

Non-fogging	
Protection against spattering	■
Protection against splinters	■
Protection against glare	■
UV-protection	■
Chemical protection	■
Hot areas	■
Cold areas	■

Article no.	Description	Dimensions
GFKKH100	Headgear without forehead guard	
GFKVI100	Face shield made of PC, clear, with extended forehead area	500 x 280 x 1 mm



## Face shields

### Application example for a face shield on a hard hat bracket



#### Note

##### **Absolutely compatible**

All of our face shields fit both the headgear with forehead guard as well as the hard hat brackets. This reduces your warehouse expenses. In addition, the standard attachment makes simple and uniform utilization of brackets possible.





Matching hard hat brackets can be found on pages 6–11.

### Material guide face shields

#### Polycarbonate (PC) – the all-rounder

- very good optical quality
- good UV protection
- high-impact strength
- lower chemical resistance
- high temperature resistance

#### Triacetate (TA) – for high temperatures

- very good optical quality
- good UV protection
- lower impact strength
- lower chemical resistance
- high temperature resistance

#### Cellulose acetate (CA) – for chemical workplaces

- very good optical quality
- good UV protection
- lower impact strength
- high chemical resistance
- lower temperature resistance

#### Polyphenylsulphone (PPSU) – for the highest temperatures

- very good optical quality
- good UV protection
- high impact strength
- lower chemical resistance
- highest temperature resistance

	Material thickness	Optical class	UV-protection	Impact strength	Chemical resistance	Temperature resistance
PC	1,00–2,00 mm	1	2–1,2	B – 120 m/s	+	up to 120 °C
CA	1,15 mm	1	2–1,2	F – 45 m/s	++	up to 90 °C
TA	1,40 mm	1	2–1,2	F – 45 m/s	+	up to 150 °C
PPSU	2,00 mm	1	2–1,2	B – 120 m/s	+	up to 220 °C
PC green	1,00 mm	1	2–2,5	B – 120 m/s	+	up to 120 °C
CA green	1,25 mm	1	2–5	F – 45 m/s	++	up to 90 °C

#### Note

If you wish, we will manufacture face shields in accordance with your individual requirements. Almost anything is possible.

Contact us!

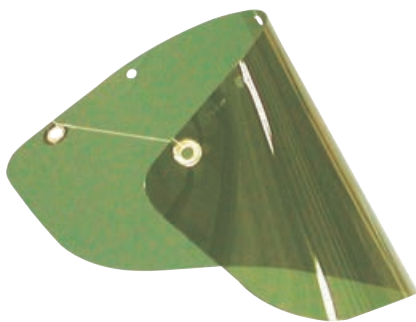
## Face shields

### Face shields made of polycarbonate, clear



Design		Article no. GFKVI002		
Non-fogging	Protection against spattering	■	<ul style="list-style-type: none"> <li>The face shield is made of 1 mm thick polycarbonate</li> <li>Excellent optical quality</li> <li>High resistance to temperature extremes approx. -50°C to +135°C</li> <li>Good UV protection</li> <li>High impact strength (B – 120 m/s)</li> <li>Also available with non-fogging treated inner side</li> </ul>	
■	Protection against splinters	■		
■	Protection against glare	■		
■	UV-protection	■		
■	Chemical protection	■		
■	Hot areas	■		
■	Cold areas	■		
		Article no.	Description	Dimensions
		GFKVI002	Face shield made of PC, clear	500 x 250 x 1 mm
		GFKVI002-3	Face shield made of PC, clear, non-fogging	500 x 250 x 1 mm
		GFKVI002-4	Face shield made of PC, clear	500 x 200 x 1 mm

### Face shields made of polycarbonate, green



Design		Article no. GFKVI002-1		
Non-fogging	Protection against spattering	■	<ul style="list-style-type: none"> <li>The face shield is made of 1 mm thick polycarbonate</li> <li>Excellent optical quality</li> <li>Additional glare protection due to green tinting (welding protection shade 2,5)</li> <li>High resistance to temperature extremes approx. -50°C to +135°C</li> <li>Good UV protection</li> <li>High impact strength (B – 120 m/s)</li> </ul>	
■	Protection against splinters	■		
■	Protection against glare	■		
■	UV-protection	■		
■	Chemical protection	■		
■	Hot areas	■		
■	Cold areas	■		
		Article no.	Description	Dimensions
		GFKVI002-1	Face shield made of PC, green	500 x 250 x 1 mm
		GFKVI045	Face shield made of PC, green	500 x 125 x 1 mm

### Face shields made of polycarbonate, clear, with PVC-bib



Design		Article no. GFKVI002-5		
Non-fogging	Protection against spattering	■	<ul style="list-style-type: none"> <li>The face shield is made of 1 mm thick polycarbonate</li> <li>Excellent optical quality</li> <li>High resistance to temperature extremes approx. -50°C to +135°C</li> <li>Good UV protection</li> <li>High impact strength (B – 120 m/s)</li> <li>Additional protection of neck and chest area due to the large PVC-bib</li> <li>Also available with non-fogging treated inner side</li> </ul>	
■	Protection against splinters	■		
■	Protection against glare	■		
■	UV-protection	■		
■	Chemical protection	■		
■	Hot areas	■		
■	Cold areas	■		
		Article no.	Description	Dimensions
		GFKVI002-5	Face shield made of PC, clear	500 x 200 x 1 mm
		GFKVI002-9	Face shield made of PC, clear, non-fogging	500 x 200 x 1 mm



Matching hard hat brackets can be found on pages 6–11.

## Face shields made of polycarbonate, clear, ear protection

### Article no. GFKVI102

- The face shield is made of 1 mm thick polycarbonate
- Excellent optical quality
- High resistance to temperature extremes approx. -50°C to +135°C
- Good UV protection
- High impact strength (B – 120 m/s)
- The face shield has recesses on the side and is a perfect fit on the ear protection hard hat bracket (page 11)
- Also available with non-fogging treated inner side

### Design

Non-fogging
Protection against spattering
Protection against splinters
Protection against glare
UV-protection
Chemical protection
Hot areas
Cold areas



Article no.	Description	Dimensions
GFKVI102	Face shield made of PC, clear	480 x 200 x 1 mm
GFKVI102-3	Face shield made of PC, clear, non-fogging	480 x 200 x 1 mm

GFKVI102	Face shield made of PC, clear	480 x 200 x 1 mm	■	■	■	■	■	■
GFKVI102-3	Face shield made of PC, clear, non-fogging	480 x 200 x 1 mm	■	■	■	■	■	■

## Face shields made of polycarbonate, clear, ear protection, with PVC-bib

### Article no. GFKVI102-5

- The face shield is made of 1 mm thick polycarbonate
- Excellent optical quality
- High resistance to temperature extremes approx. -50°C to +135°C
- Good UV protection
- High impact strength (B – 120 m/s)
- Additional protection of neck and chest area due to the large PVC-bib
- The face shield has recesses on the side and is a perfect fit on the ear protection hard hat bracket (page 11)
- Also available with non-fogging treated inner side

### Design

Non-fogging
Protection against spattering
Protection against splinters
Protection against glare
UV-protection
Chemical protection
Hot areas
Cold areas



Article no.	Description	Dimensions
GFKVI102-5	Face shield made of PC, clear	480 x 200 x 1 mm
GFKVI102-9	Face shield made of PC, clear, non-fogging	480 x 200 x 1 mm

GFKVI102-5	Face shield made of PC, clear	480 x 200 x 1 mm	■	■	■	■	■	■
GFKVI102-9	Face shield made of PC, clear, non-fogging	480 x 200 x 1 mm	■	■	■	■	■	■

## Face shields made of polycarbonate, clear, fully enclosed

### Article no. GFKVI202

- The face shield is made of 1 mm thick polycarbonate
- Excellent optical quality
- High resistance to temperature extremes approx. -50°C to +135°C
- Good UV protection
- High impact strength (B – 120 m/s)
- Additional protection of neck and chin due to fully enclosed face shield
- Also available with non-fogging treated inner side

### Design

Non-fogging
Protection against spattering
Protection against splinters
Protection against glare
UV-protection
Chemical protection
Hot areas
Cold areas



Article no.	Description	Dimensions
GFKVI202	Face shield made of PC, clear	450 x 220 x 1 mm
GFKVI204	Face shield made of PC, clear, non-fogging	450 x 220 x 1 mm

GFKVI202	Face shield made of PC, clear	450 x 220 x 1 mm	■	■	■	■	■	■
GFKVI204	Face shield made of PC, clear, non-fogging	450 x 220 x 1 mm	■	■	■	■	■	■

## Face shields

### Face shields made of polycarbonate, clear, with aluminium rail



Design		Article no. GFKVI003		
Non-fogging	Protection against spattering	<ul style="list-style-type: none"> <li>The face shield is made of 1 mm thick polycarbonate</li> <li>Excellent optical quality</li> <li>High resistance to temperature extremes approx. -50°C to +135°C</li> <li>Good UV protection</li> <li>High impact strength (B – 120m/s)</li> <li>The face shield is attached to the bracket by an aluminium rail</li> </ul>		
Protection against splinters	Protection against glare			
UV-protection	Chemical protection			
Hot areas	Cold areas			
		Article no.	Description	Dimensions
		GFKVI003	Face shield made of PC, clear	350 x 300 x 1 mm
		GFKVI004	Face shield made of PC, clear	280 x 220 x 1 mm

### Face shields made of polycarbonate, clear, with elongated hole



Design		Article no. GFKVI016-2		
Non-fogging	Protection against spattering	<ul style="list-style-type: none"> <li>The face shield is made of 1 mm thick polycarbonate</li> <li>Excellent optical quality</li> <li>High resistance to temperature extremes approx. -50°C to +135°C</li> <li>Good UV protection</li> <li>High impact strength (B – 120 m/s)</li> <li>The face shield fits on the GFKKH200-1 headgear (page 15) and on the GFKHH004 hard hat bracket (page 8)</li> </ul>		
Protection against splinters	Protection against glare			
UV-protection	Chemical protection			
Hot areas	Cold areas			
		Article no.	Description	Dimensions
		GFKVI016-2	Face shield made of PC, clear	500 x 250 x 1 mm
		GFKVI016-3	Face shield made of PC, clear, pointed shape	500 x 250 x 1 mm

### Face shield made of polycarbonate, clear, for GFKKH200-2 headgear



Design		Article no. GFKVI032		
Non-fogging	Protection against spattering	<ul style="list-style-type: none"> <li>The face shield is made of 1 mm thick polycarbonate</li> <li>Excellent optical quality</li> <li>High resistance to temperature extremes approx. -50°C to +135°C</li> <li>Good UV protection</li> <li>High impact strength (B – 120 m/s)</li> <li>Face shield fits on the GFKKH200-2 headgear (page 15)</li> </ul>		
Protection against splinters	Protection against glare			
UV-protection	Chemical protection			
Hot areas	Cold areas			
		Article no.	Description	Dimensions
		GFKVI032	Face shield made of PC, clear	320 x 200 x 1 mm

Matching hard hat brackets can be found on pages 6–11.

## Face shield made of polycarbonate, clear, for headgear without forehead guard

### Article no. GFKVI100

- The face shield is made of 1 mm thick polycarbonate
- Excellent optical quality
- High resistance to temperature extremes approx. -50°C to +135°C
- Good UV protection
- High impact strength (B – 120 m/s)
- Additional protection of the forehead due to the extended face shield
- The face shield fits on the GFKKH100 headgear (page 15)

### Design

Non-fogging	
Protection against spattering	■
Protection against splinters	■
Protection against glare	■
UV-protection	■
Chemical protection	
Hot areas	■
Cold areas	■



### Article no.

### Description

### Dimensions

GFKVI100 Face shield made of PC, clear, with extended forehead area

500 x 280 x 1 mm

## Face shield made of triacetate, clear

### Article no. GFKVI005

- The face shield is made of 1,4 mm thick triacetate
- Excellent optical quality
- High resistance to temperature extremes up to approx. +150°C
- Good UV protection
- Lower notched impact strength (F – 45 m/s)

### Design

Non-fogging	
Protection against spattering	■
Protection against splinters	■
Protection against glare	■
UV-protection	■
Chemical protection	
Hot areas	■
Cold areas	■



### Article no.

### Description

### Dimensions

GFKVI005 Face shield made of TA, clear

500 x 250 x 1,4 mm

## Face shield made of polyphenylsulphone (PPSU), clear

### Article no. GFKVI513

- The face shield is made of 2 mm thick polyphenylsulphone (PPSU)
- Excellent optical quality
- High resistance to temperature extremes up to approx. +220°C
- Good UV protection
- High impact strength (B – 120 m/s)

### Design

Non-fogging	
Protection against spattering	■
Protection against splinters	■
Protection against glare	■
UV-protection	■
Chemical protection	
Hot areas	■
Cold areas	■



### Article no.

### Description

### Dimensions

GFKVI513 Face shield made of PPSU, clear

500 x 250 x 2 mm

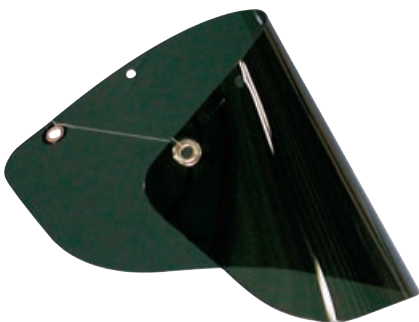


## Face shields

### Application example of a CA-face shield



### Face shield made of cellulose acetate, green



Design		Article no. GFKVI405	
Non-fogging		<ul style="list-style-type: none"> <li>The face shield is made of 1,25 mm thick cellulose acetate</li> <li>Excellent optical quality</li> <li>Resistance to temperature extremes up to approx. +90°C</li> <li>Available with welding protection shade 5</li> <li>Good resistance to chemicals</li> <li>Lower notched impact strength (F – 45 m/s)</li> </ul>	
Protection against spattering			
Protection against splinters			
Protection against glare			
UV-protection			
Chemical protection			
Hot areas			
Cold areas			
Article no.	Description	Dimensions	
GFKVI405	Face shield made of CA, green, protective shade 5	500 x 250 x 1,25 mm	

Matching hard hat brackets can be found on pages 6–11.

## Face shields made of cellulose acetate, clear

### Article no. GFKVI007

- The face shield is made of 1,15 mm thick cellulose acetate
- Excellent optical quality
- Resistance to temperature extremes up to approx. +90°C
- Good resistance to chemicals
- Lower notched impact strength (F – 45 m/s)
- Also available with non-fogging treated inner side

Article no.	Description	Dimensions
GFKVI007	Face shield made of CA, clear	500 x 250 x 1,15 mm
GFKVI007-2	Face shield made of CA, clear, non-fogging	500 x 250 x 1,15 mm
GFKVI007-4	Face shield made of CA, clear	500 x 200 x 1,15 mm

Design	
Non-fogging	
Protection against spattering	■
Protection against splinters	■
Protection against glare	■
UV-protection	■
Chemical protection	■
Hot areas	
Cold areas	



## Face shields made of cellulose acetate, clear, fully enclosed

### Article no. GFKVI200

- The face shield is made of 1,15 mm thick cellulose acetate
- Excellent optical quality
- Resistance to temperature extremes up to approx. +90°C
- Good resistance to chemicals
- Lower notched impact strength (F – 45 m/s)
- Additional protection of neck and chin due to fully enclosed face shield

Article no.	Description	Dimensions
GFKVI200	Face shield made of CA, clear, fully enclosed	450 x 220 x 1,15 mm
GFKVI200-2	Face shield made of CA, clear, fully enclosed, polished edges	450 x 220 x 1,15 mm

Design	
Non-fogging	
Protection against spattering	■
Protection against splinters	■
Protection against glare	■
UV-protection	■
Chemical protection	■
Hot areas	
Cold areas	



## Face shield made of cellulose acetate, clear, for GFKKH200-2 headgear

### Article no. GFKVI032-1

- The face shield is made of 1,15 mm thick cellulose acetate
- Excellent optical quality
- Resistance to temperature extremes up to approx. +90°C
- Good resistance to chemicals
- Lower notched impact strength (F – 45 m/s)
- The face shield fits on the GFKKH200-2 headgear (page 15)

Article no.	Description	Dimensions
GFKVI032-1	Face shield made of CA, clear	320 x 200 x 1,15 mm

Design	
Non-fogging	
Protection against spattering	■
Protection against splinters	■
Protection against glare	■
UV-protection	■
Chemical protection	■
Hot areas	
Cold areas	



Face shields made of polycarbonate, gold-coated

Application example for a gold-coated face shield



## Note

### Coating

We can also coat our visors with a coating of lacquer. This especially provides additional protection for the layer of gold.





Matching hard hat brackets can be found on pages 6–11.

## Face shields made of polycarbonate, clear, gold-coated

### Article no. GFKVI001

- The face shield is made of 1 mm thick polycarbonate
- Excellent optical quality
- High resistance to temperature extremes approx.  $-50^{\circ}\text{C}$  to  $+135^{\circ}\text{C}$
- Good UV protection
- High impact strength (B – 120 m/s)
- 94% of the radiant heat is reflected by the gold layer
- IR-protection shade 4–4

Design	
Non-fogging	■
Protection against spattering	■
Protection against splinters	■
Protection against glare	■
UV-protection	■
Chemical protection	■
Hot areas	■
Cold areas	■



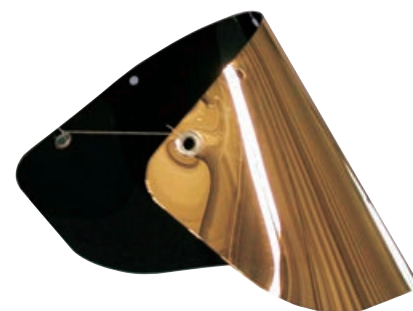
Article no.	Description	Dimensions
GFKVI001	Face shield made of PC, clear, gold-coated	500 x 250 x 1 mm
GFKVI001-2	Face shield made of PC, clear, gold-coated plus lacquer sealing	500 x 250 x 1 mm

## Face shields made of polycarbonate, green, gold-coated

### Article no. GFKVI001-1

- The face shield is made of 1 mm thick polycarbonate
- Excellent optical quality
- High resistance to temperature extremes approx.  $-50^{\circ}\text{C}$  to  $+135^{\circ}\text{C}$
- Good UV protection
- High impact strength (B – 120 m/s)
- 94% of the radiant heat is reflected by the gold layer
- IR-protection shade 4–5

Design	
Non-fogging	■
Protection against spattering	■
Protection against splinters	■
Protection against glare	■
UV-protection	■
Chemical protection	■
Hot areas	■
Cold areas	■



Article no.	Description	Dimensions
GFKVI001-1	Face shield made of PC, green, gold-coated	500 x 250 x 1 mm
GFKVI001-6	Face shield made of PC, green, gold-coated plus lacquer sealing	500 x 250 x 1 mm

## Face shields made of polycarbonate, gold-coated and fully enclosed

### Article no. GFKVI210

- The face shield is made of 1 mm thick polycarbonate
- Excellent optical quality
- High resistance to temperature extremes approx.  $-50^{\circ}\text{C}$  to  $+135^{\circ}\text{C}$
- Good UV protection
- High impact strength (B – 120 m/s)
- IR-protection shades 4–4 and 4–5 available
- Additional protection of neck and chin due to fully enclosed face shield

Design	
Non-fogging	■
Protection against spattering	■
Protection against splinters	■
Protection against glare	■
UV-protection	■
Chemical protection	■
Hot areas	■
Cold areas	■



Article no.	Description	Dimensions
GFKVI210	Face shield made of PC, clear, gold-coated	450 x 220 x 1 mm
GFKVI210-1	Face shield made of PC, green, gold-coated	450 x 220 x 1 mm

## Products against heat radiation

### Application example of a wire mesh visor on a hard hat bracket



#### Note

Wire mesh visors protect the face against radiant heat. Here, part of the heat is reflected by the galvanized wire cloth. Two different designs are manufactured. The border is either bound with a **metalized fabric tape** or **the edge of the wire mesh shields is folded over twice and crimped**.





Matching hard hat brackets can be found on pages 6–11.

## Mesh visor 500 x 250 with window 60 x 120 mm

### Article no. BFKHI008

- The mesh visor is made of galvanized wire cloth
- It shields the face against radiant heat
- The mesh visor has a window opening for lenses with the dimensions 60 x 120 mm
- Among others, blue inspection glasses, green welding glasses, or clear glasses can be utilized in the window opening
- The lenses are securely clamped in the lens frame by two steel springs
- Like the other face shields, the mesh visors are also attached to an aluminium hard hat bracket (e.g. GFKHH003)
- The blackened inner side ensures good visibility and prevents the wearer from being blinded by glare

### Design

Non-fogging	Protection against spattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
■	■	■	■	■	■	■	■



Article no.	Description	Dimensions
BFKHI008	Mesh visor with window and flanged edge	500 x 250 mm
BFKHI008-1	Mesh visor with window and fabric tape border	500 x 250 mm

## Mesh visor 500 x 250 mm with window 60 x 120 mm and aluminium covering

### Article no. BFKHI008-ALU

- The mesh visor is made of galvanized wire cloth
- From the outside the mesh visor is covered with aluminised fabric
- It shields the face against radiant heat
- The mesh visor has a window opening for lenses with the dimensions 60 x 120 mm
- Among others, blue inspection glasses, green welding glasses, or clear glasses can be utilized in the window opening
- The lenses are securely clamped in the lens frame by two steel springs
- Like the other face shields, the mesh visors are also attached to an aluminium hard hat bracket (e.g. GFKHH003)

### Design

Non-fogging	Protection against spattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
■	■	■	■	■	■	■	■



Article no.	Description	Dimensions
BFKHI008-ALU	Mesh visor with window and fabric tape border and additional aluminium covering	500 x 250 mm

## Mesh visor 500 x 250 mm with border made of metalized fabric tape

### Article no. BFKHI010-1

- The mesh visor is made of galvanized wire cloth
- It shields the face against radiant heat
- The mesh visors are offered in two sizes: 500 x 250 mm and 500 x 300 mm
- Like the other face shields, the mesh visors are also attached to an aluminium hard hat bracket (e.g. GFKHH003)
- The blackened inner side ensures good visibility and prevents the wearer from being blinded by glare

### Design

Non-fogging	Protection against spattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
■	■	■	■	■	■	■	■



Article no.	Description	Dimensions
BFKHI002	Mesh visor with flanged edge	500 x 300 mm
BFKHI002-1	Mesh visor with flanged edge	500 x 250 mm
BFKHI010	Mesh visor with fabric tape border	500 x 300 mm
BFKHI010-1	Mesh visor with fabric tape border	500 x 250 mm



## Products against heat radiation

### New Bochum goggles with hinge

#### Attachment type 1:

The New Bochum goggles are permanently screwed to the helmet with a hinged bracket. For this purpose, the helmet shield has to be drilled. As a rule, furnace inspection glasses are inserted into the viewing window so that it is easier to assess the metal melt.



### New Bochum goggles 300 x 180 mm with window 60 x 120 mm



Design		Article no. BFKBB001	
Non-fogging	Protection against spattering	■	<ul style="list-style-type: none"> <li>■ The wire cloth shield has the dimensions 300 x 180 mm and a window opening</li> <li>■ Lenses with the dimensions 60 x 120 mm fit into the sturdy window frames</li> <li>■ The lenses are securely clamped in the frame by two steel springs and are easy to change</li> <li>■ The wire cloth is surrounded by an aluminium frame</li> <li>■ The inside of the goggles is blackened so that the wearer is not blinded by glare from the inside</li> <li>■ The Bochum goggles can be attached to the hard hat by means of a hinge or an aluminium rail</li> </ul>
Protection against splinters	Protection against glare	■	
UV-protection	Chemical protection	■	
Hot areas	Cold areas	■	
		■	
		■	
Article no.	Description	Dimensions	
■ BFKBB001	New Bochum goggles with hinge	300 x 180 mm	
■ BFKBB001-1	New Bochum goggles with aluminium rail	300 x 180 mm	

Matching protective filters can be found on pages 34–35.

## New Bochum goggles with aluminium rail

### Attachment version 2:

The New Bochum goggles are attached to a hard hat bracket (e.g. GFKHH003) by means of an aluminium rail. Now the New Bochum goggles can be raised and lowered without difficulty.



## New Bochum goggles 200 x 135 mm with window 2 x 50 mm

### Article no. BFKBB003

- The wire cloth shield has the dimensions 200 x 135 mm and two window openings
- Round lenses with a diameter of 50 mm fit into the sturdy window frames
- The lenses are securely clamped in the frame by two steel springs and are easy to change
- The wire cloth is surrounded by an aluminium frame
- The inside of the goggles is blackened so that the wearer is not blinded by glare from the inside
- The Bochum goggles can be attached to the hard hat by means of a hinge or an aluminium rail

### Design

Design	Non-fogging	Protection against spattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
BFKBB003		■	■	■			■	
BFKBB003-1		■	■	■			■	



Article no.	Description	Dimensions
BFKBB003	New Bochum goggles with hinge	200 x 135 mm
BFKBB003-1	New Bochum goggles with aluminium rail	200 x 135 mm



## New Bochum goggles

### New Bochum goggles 200 x 135 mm with window 60 x 120 mm



Design		Article no. BFKBB004
Non-fogging	Protection against spattering	<ul style="list-style-type: none"> <li>■ The wire cloth shield has the dimensions 200 x 135 mm and a window opening</li> <li>■ Lenses with the dimensions 60 x 120 mm fit into the sturdy window frames</li> <li>■ The lenses are securely clamped in the frame by two steel springs and are easy to change</li> <li>■ The wire cloth is surrounded by an aluminium frame</li> <li>■ The inside of the goggles is blackened so that the wearer is not blinded by glare from the inside</li> <li>■ The Bochum goggles can be attached to the hard hat by means of a hinge or an aluminium rail</li> </ul>
Protection against splinters	Protection against glare	
UV-protection	Chemical protection	
Hot areas	Hot areas	
Cold areas	Cold areas	
Article no.	Description	Dimensions
BFKBB004	New Bochum goggles with hinge	200 x 135 mm
BFKBB004-1	New Bochum goggles with aluminium rail	200 x 135 mm

### New Bochum goggles 300 x 180 mm with window 2 x 60 x 60 mm



Design		Article no. BFKBB021
Non-fogging	Protection against spattering	<ul style="list-style-type: none"> <li>■ The wire cloth shield has the dimensions 300 x 180 mm and a window opening</li> <li>■ Lenses with the dimensions 60 x 60 mm fit into the sturdy window frames</li> <li>■ The lenses are securely clamped in the frame by three steel springs and are easy to change</li> <li>■ The wire cloth is surrounded by an aluminium frame</li> <li>■ The inside of the goggles is blackened so that the wearer is not blinded by glare from the inside</li> <li>■ The Bochum goggles can be attached to the hard hat by means of a hinge</li> </ul>
Protection against splinters	Protection against glare	
UV-protection	Chemical protection	
Hot areas	Hot areas	
Cold areas	Cold areas	
Article no.	Description	Dimensions
BFKBB021	New Bochum goggles with hinge	300 x 180 mm

### New Bochum goggles 200 x 135 mm with window 2 x 60 x 60 mm



Design		Article no. BFKBB024
Non-fogging	Protection against spattering	<ul style="list-style-type: none"> <li>■ The wire cloth shield has the dimensions 200 x 135 mm and a window opening</li> <li>■ Lenses with the dimensions 60 x 60 mm fit into the sturdy window frames</li> <li>■ The lenses are securely clamped in the frame by three steel springs and are easy to change</li> <li>■ The wire cloth is surrounded by an aluminium frame</li> <li>■ The inside of the goggles is blackened so that the wearer is not blinded by glare from the inside</li> <li>■ The Bochum goggles can be attached to the hard hat by means of a hinge</li> </ul>
Protection against splinters	Protection against glare	
UV-protection	Chemical protection	
Hot areas	Hot areas	
Cold areas	Cold areas	
Article no.	Description	Dimensions
BFKBB024	New Bochum goggles with hinge	200 x 135 mm



Matching protective filters can be found on pages 34–35.

## New Bochum goggles made of aluminium plate 200 x 135 mm with window 60 x 120 mm

### Article no. BFKBB071

- The aluminium shield has the dimensions 200 x 135 mm and a window opening
- Lenses with the dimensions 60 x 120 mm fit into the sturdy window frames
- The lenses are securely clamped in the frame by two steel springs and are easy to change
- The inside of the goggles is blackened so that the wearer is not blinded by glare from the inside
- The Bochum goggles can be attached to the hard hat by means of a hinge or an aluminium rail

Design	
Non-fogging	
Protection against spattering	■
Protection against splinters	■
Protection against glare	■
UV-protection	
Chemical protection	
Hot areas	■
Cold areas	



Article no.	Description	Dimensions
BFKBB071	New Bochum goggles with hinge	200 x 135 mm
BFKBB071-1	New Bochum goggles with aluminium rail	200 x 135 mm

## New Bochum goggles made of aluminium plate 300 x 180 mm with window 60 x 120 mm

### Article no. BFKBB072

- The aluminium shield has the dimensions 300 x 180 mm and a window opening
- Lenses with the dimensions 60 x 120 mm fit into the sturdy window frames
- The lenses are securely clamped in the frame by two steel springs and are easy to change
- The inside of the goggles is blackened so that the wearer is not blinded by glare from the inside
- The Bochum goggles can be attached to the hard hat by means of a hinge or an aluminium rail

Design	
Non-fogging	
Protection against spattering	■
Protection against splinters	■
Protection against glare	■
UV-protection	
Chemical protection	
Hot areas	■
Cold areas	



Article no.	Description	Dimensions
BFKBB072	New Bochum goggles with hinge	300 x 180 mm
BFKBB072-1	New Bochum goggles with aluminium rail	300 x 180 mm

## New Bochum goggles made of aluminium plate 200 x 135 mm with window 2 x 50 mm

### Article no. BFKBB007

- The aluminium shield has the dimensions 200 x 135 mm and a window opening
- Round lenses with a diameter of 50 mm fit into the sturdy window frames
- The lenses are securely clamped in the frame by two steel springs and are easy to change
- The inside of the goggles is blackened so that the wearer is not blinded by glare from the inside
- The Bochum goggles can be attached to the hard hat by means of a hinge or an aluminium rail

Design	
Non-fogging	
Protection against spattering	■
Protection against splinters	■
Protection against glare	■
UV-protection	
Chemical protection	
Hot areas	■
Cold areas	



Article no.	Description	Dimensions
BFKBB007	New Bochum goggles with hinge	200 x 135 mm
BFKBB007-1	New Bochum goggles with aluminium rail	200 x 135 mm

## Flip-down goggles on a hard hat

### Application example for flip-down goggles on a hard hat



### Protective filters for flip-down goggles

For the flip-down goggles there are protective filters made of glass in two different sizes. As a rule, green welding glasses (protective shades 2 to 13) or blue furnace inspection glasses (protective shade 4-7) are used. However, clear glasses are also possible. All of the optical glasses used are also available in a shatter-proof and a gold-coated version.



59 x 49 mm



62 x 52 mm

Matching protective filters can be found on pages 34–35.

## Flip-down goggles for direct hard hat installation

### Article no. GFKBR002-1

- The goggles are attached to the brim of the hard hat with two screws
- With a hinge and a slotted sliding mechanism, the goggles can be individually adjusted
- The side baskets are fixed in place so that they do not obstruct the view when the goggles are folded up
- The hinged parts are made of galvanized hardened steel
- The flip-down goggles are available in two lens sizes: 59 x 49 mm and 62 x 52 mm

Article no.	Description	Dimensions
GFKBR002-1	Flip-down goggles for direct hard hat installation	62 x 52 mm
GFKBR003	Flip-down goggles for direct hard hat installation	59 x 49 mm

Design	
Non-fogging	
Protection against spattering	■
Protection against splinters	■
Protection against glare	
UV-protection	
Chemical protection	
Hot areas	■
Cold areas	



## Flip-down goggles on an aluminium U-profile

### Article no. GFKBR004-1

- The goggles are mounted on an aluminium U-profile
- The brim of the hard hat does not need to be drilled to attach the goggles
- The goggles are easy to attach to the hard hat
- Secure fit on the hard hat due to a powerful tension spring
- With a hinge and a slotted sliding mechanism, the goggles can be individually adjusted
- The side baskets are fixed in place so that they do not obstruct the view when the goggles are folded up
- The hinged parts are made of galvanized hardened steel
- The flip-down goggles are available in two lens sizes: 59 x 49 mm and 62 x 52 mm

Article no.	Description	Dimensions
GFKBR004-1	Flip-down goggles on an aluminium U-profile	62 x 52 mm
GFKBR005	Flip-down goggles on an aluminium U-profile	59 x 49 mm

Design	
Non-fogging	
Protection against spattering	■
Protection against splinters	■
Protection against glare	
UV-protection	
Chemical protection	
Hot areas	■
Cold areas	



## Flip-down goggles on an aluminium hard hat bracket

### Article no. GFKBR006-1

- The goggles are mounted on an aluminium hard hat bracket
- The brim of the hard hat does not need to be drilled to attach the goggles
- The goggles are easy to attach to the hard hat
- Secure fit on the hard hat due to a powerful tension spring
- With a hinge and a slotted sliding mechanism, the goggles can be individually adjusted
- The side baskets are fixed in place so that they do not obstruct the view when the goggles are folded up
- The hinged parts are made of galvanized hardened steel
- The flip-down goggles are available in two lens sizes: 59 x 49 mm and 62 x 52 mm
- In addition to the protective goggles, a face shield can also be attached

Article no.	Description	Dimensions
GFKBR006-1	Flip-down goggles on an aluminium hard hat bracket	62 x 52 mm
GFKBR007	Flip-down goggles on an aluminium hard hat bracket	59 x 49 mm

Design	
Non-fogging	
Protection against spattering	■
Protection against splinters	■
Protection against glare	
UV-protection	
Chemical protection	
Hot areas	■
Cold areas	





## Protective filters

### Protective filters 60 x 120 mm



Design		Article no. ZFKGL030-47	
Non-fogging	Protection against spattering	■	<ul style="list-style-type: none"> <li>■ Lenses with the dimensions 60 x 120 mm</li> <li>■ Fit into the window of the New Bochum goggles BFKBB001 and BFKBB004, as well as the wire mesh visors with window BFKHI008 ALU (pages 27–31)</li> <li>■ Available with various protective filters:                             <ul style="list-style-type: none"> <li>• Furnace inspection glass, blue, protective shade 4–7</li> <li>• Protective welding glasses, green, in the protective shades 3 to 12</li> <li>• Clear glass</li> <li>• Polycarbonate</li> </ul> </li> <li>■ All protective filters are also available as laminated glasses (SPFR) and gold-coated (GBD)</li> </ul>
Protection against splinters	Protection against glare	■	
UV-protection	Chemical protection	■	
Hot areas	Cold areas	■	
Article no.	Description	Dimensions	
ZFKGL030-47	Furnace inspection glass, blue, protective shade 4–7	60 x 120 mm	
ZFKGL050-9	Welding glass, green, protective shade 9	60 x 120 mm	
ZFKGL056SPFR	Laminated glass, clear, shatterproof	60 x 120 mm	

### Protective filters Ø 50 mm



Design		Article no. ZFKGL011-47	
Non-fogging	Protection against spattering	■	<ul style="list-style-type: none"> <li>■ Round glasses with a diameter of 50 mm</li> <li>■ Fit into the window of the New Bochum goggles BFKBB003 (pages 29 and 31) and the welder's leather hood GFKBR001 (page 39)</li> <li>■ Supplied in pairs</li> <li>■ Available with various protective filters:                             <ul style="list-style-type: none"> <li>• Furnace inspection glass, blue, protective shade 4–7</li> <li>• Protective welding glasses, green, in the protective shades 3 to 12</li> <li>• Clear glass</li> <li>• Polycarbonate</li> </ul> </li> <li>■ All protective filters are also available as laminated glasses (SPFR) and gold-coated (GBD)</li> </ul>
Protection against splinters	Protection against glare	■	
UV-protection	Chemical protection	■	
Hot areas	Cold areas	■	
Article no.	Description	Dimensions	
ZFKGL011-47	Furnace inspection glass, blue, protective shade 4–7	Ø 50 mm	
ZFKGL001-9	Welding glass, green, protective shade 9	Ø 50 mm	
ZFKGL063SPFR	Laminated glass, clear, shatterproof	Ø 50 mm	

**Recommended protective shade according to DIN EN 171 depending on the temperature**

Protective shade	Radiation temperature (°C)
4–2	1110
4–2,5	1150
4–3	1190
4–4	1290
4–5	1390
4–6	1510
4–7	1650

#### Information on furnace inspection glasses

Furnace inspection glasses are suitable for observing fused materials during smelting operations in foundries, steelworks, glass and porcelain works etc. The glass is tinted blue and guarantees the necessary protection against harmful infrared radiation in the spectral range from 780–2000 nm. At the same time it enables the correct identification and assessment of smelting processes in the furnace.

Matching goggles can be found on pages 28–33.

### Protective filters for flip-down goggles 62 x 52 mm

**Article no. ZFKGL012-47**

- Protective filters for flip-down goggles 62 x 52 mm
- Fit into the window of the flip down goggles GFKBR002-1 / 004-1 / 006-1
- Supplied in pairs
- Available with various protective filters:
  - Furnace inspection glass, blue, in the protective shade 4–7
  - Protective welding glasses, green, protective shades 3 to 12
  - Clear glass
  - Polycarbonate
- All protective filters are also available as laminated glasses (SPFR) and gold-coated (GBD)

**Design**

Non-fogging	Protection against spattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
■	■	■	■	■	■	■	■



Article no.	Description	Dimensions
ZFKGL012-47	Furnace inspection glass, blue, protective shade 4–7	62 x 52 mm
ZFKGL052-9	Welding glass, green, protective shade 9	62 x 52 mm
ZFKGL052SPFR	Laminated glass, clear, shatterproof	62 x 52 mm
ZFKGL058	Polycarbonate	62 x 52 mm

### Protective filters for flip down goggles 59 x 49 mm

**Article no. ZFKGL013-47**

- Protective filters for flip-down goggles 59 x 49 mm
- Fit into the window of the flip-down goggles GFKBR003 / 005 / 007
- Supplied in pairs
- Available with various protective filters:
  - Furnace inspection glass, blue, in the protective shade 4–7
  - Protective welding glasses green, protective shades 3 to 12
  - Clear glass
  - Polycarbonate
- All protective filters are available as laminated glasses (SPFR) and gold-coated (GBD)

**Design**

Non-fogging	Protection against spattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
■	■	■	■	■	■	■	■

Article no.	Description	Dimensions
ZFKGL013-47	Furnace inspection glass, blue, protective shade 4–7	59 x 49 mm
ZFKGL055-9	Welding glass, green, protective shade 9	59 x 49 mm
ZFKGL051SPFR	Laminated glass, clear, shatterproof	59 x 49 mm
ZFKGL057	Polycarbonate	59 x 49 mm



#### Information on protective welding glasses

Protective welding glasses must be used when welding in order to protect the eye against harmful UV radiation (wavelength below 400 nm). The protective welding glasses have a green tint and are available in a wide range of protective shades from 1, 2 to 13. The protective shade to be used depends on the welding method, as well as the current strength and/or gas consumption. For more information, please contact us.



Laminated glasses and aluminium window frames for heat protection suits

Application example for aluminium window frames



## Note

The glasses for the aluminium window frame are manufactured from curved laminated glass. These are available in two different forms. In one case, two pieces of glass are laminated together. If the glass breaks, it is nevertheless held together. In addition, we offer glasses made of a glass-PC composite. This particularly safe version protects the face by means of a polycarbonate pane on the inside.

Both versions are offered in the sizes 220 x 100 mm and 250 x 150 mm. They are available in clear and gold-coated.



Glass composite



Glass-PC composite



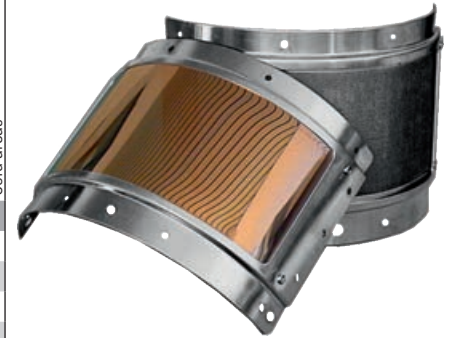
## Laminated glasses 220 x 100 mm gold-coated

**Article no. ZFKGL200**

- The laminated glass is curved and designed for the aluminium window frame 220 x 100 mm (BFKFE001)
- The glass is gold-coated and therefore provides effective protection against radiant heat
- The laminated glass protects against splinters if the glass breaks
- The glass is extremely heat resistant

**Design**

Non-fogging	Protection against spattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
■	■	■	■	■	■	■	■



Article no.	Description	Dimensions
ZFKGL200	Laminated glass gold-coated	220 x 100 x 4,5 mm
ZFKGL200-1	Laminated glass clear	220 x 100 x 4,5 mm
ZFKGL203	Glass-PC composite gold-coated	220 x 100 x 3,5 mm
ZFKGL203-1	Glass-PC composite clear	220 x 100 x 3,5 mm

## Laminated glasses 250 x 150 mm gold-coated

**Article no. ZFKGL202**

- The laminated glass is curved and designed for the aluminium window frame 250 x 150 mm (BFKFE003G)
- The glass is gold-coated and therefore provides effective protection against radiant heat
- The laminated glass protects against splinters if the glass breaks
- The glass is extremely heat resistant

**Design**

Non-fogging	Protection against spattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
■	■	■	■	■	■	■	■



Article no.	Description	Dimensions
ZFKGL202	Laminated glass gold-coated	250 x 150 x 4,5 mm
ZFKGL202-1	Laminated glass clear	250 x 150 x 4,5 mm
ZFKGL205	Glass-PC composite gold-coated	250 x 150 x 3,5 mm
ZFKGL205-1	Glass-PC composite clear	250 x 150 x 3,5 mm

## Aluminium window frames

**Article no. BFKFE001**

- The aluminium window frame is made of 1 mm thick sheet aluminium
- It is curved and is used as a visor in heat-resistant suits
- Laminated glasses and polycarbonate panes with the dimensions 220 x 100 mm and 250 x 150 mm fit into the frame
- The glasses are clamped into the frame with an attachment bracket and are easy to change

**Design**

Non-fogging	Protection against spattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
■	■	■	■	■	■	■	■

Article no.	Description	Dimensions
BFKFE001	Aluminium window frame	220 x 100 mm
BFKFE003G	Aluminium window frame	250 x 150 mm



## Welding protection

### Application example of a welding hood made of leather



### Note

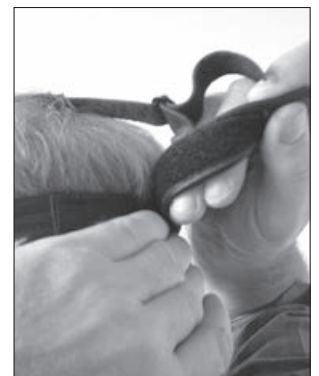
The welding hood made of leather is designed for forced-position welding. It is manufactured from soft cowhide and wide-vision full goggles made of soft PVC. This means that it readily adapts to the shape of the face. Protective filters with a 50 mm diameter fit into the fold-up window. The glasses are held in place with a tension spring. When the glasses are replaced there are no loose parts and both lenses can be replaced simultaneously.



Fold-up mechanism



Easy glass replacement



Attachment

Matching protective filters can be found on pages 34–35.

## Leather welding mask

### Article no. GFKBR001

- The leather mask is suitable for use in welding work, particularly in forced positions
- The mask is made of soft cowhide
- The welding glasses can be lifted up if needed
- The glass holding frame is designed for removable lenses with 50 mm diameter
- A spring-loaded catch makes it easy to change lenses
- The inner goggles are made of soft-PVC and fit the face comfortably
- Also available as a version with additional neck protection

Article no.	Description	Dimensions
GFKBR001	Leather welding mask	2 x 50 mm
GFKBR001-1	Leather welding mask with neck protection	2 x 50 mm

Design							
Non-fogging	Protection against splattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
■	■	■	■	■	■	■	■



## Welding shield with hard hat bracket

### Article no. SFKHH104

- The welding shield is manufactured from PA/GF (glass fibre-reinforced polyamide)
- The glass retainer is suitable for glasses measuring 90 x 110 mm
- A further fold up-window is also possible
- Easy glass replacement
- The welding shield fits on the GFKHH001 hard hat bracket and can be mounted to all standard helmets
- With the help of the hard hat bracket it is possible to fold up the entire welding shield
- Further leather accessories are available as an option (neck and/or throat protection)

Article no.	Description	Dimensions
SFKHH104	Welding shield with hard hat bracket	90 x 110 mm
SFKHH104-1	Welding shield with hard hat bracket and fold-up window	90 x 110 mm

Design							
Non-fogging	Protection against splattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
■	■	■	■	■	■	■	■



## Welding leather hood with bump cap

### Article no. SFKHL300

- Black leather hood, half-open at the back, with neck protection
- The leather is free of AZO and PCB
- Fold-up frame with built-in bump cap
- The glass retainer is provided for the use of 90 x 110 mm glasses
- The glass retainer has an additional fold-up window to receive the protective filters
- When the window is folded up, the hood provides free mobility while nevertheless offering protection through the transparent inner pane
- The weight without glasses is approximately 560 g

Article no.	Description	Dimensions
SFKHL300	Leather hood with bump cap	90 x 110 mm

Design							
Non-fogging	Protection against splattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
■	■	■	■	■	■	■	■





## Arc flash protection

### Application example of an electrician's face shield 4kA



### Information on arc flashes

Arc flashes are unwanted voltage flash-overs that can occur as a result of faulty circuits and short-circuit currents. In this process, energy is explosively released, so that plasma clouds at extremely high temperatures are produced. Besides these thermal effects, individuals are also exposed to further impacts such as an electric shock, acoustic loads, a not inconsiderable pressure wave, electromagnetic radiation,

toxic gases, hot particles and a general shock. Arc flashes occur within a split second, but have fatal consequences for people and materials.

Due to these incalculable effects, safe working conditions should be primarily created by disconnecting the power supplies. However, in many cases this is not possible, so that the risk of

**Application example of an electrician's face shields 7kA**

**Information on arc flashes**

an arc flash cannot be fully excluded. In this case, corresponding personal protective equipment must be worn. In addition to clothing that has been tested to ensure that it is protective against arc flashes, a face shield also forms part of the PPE.

Standards DIN EN 166 and GS-ET 29 distinguish between various classes of arc flashes. These are defined according to the

strength of the current and the incident energy. A distinction is made between class 1 arc flashes (4 kA / 135 kJ/m<sup>2</sup> and class 2 (7 kA / 423 kJ/m<sup>2</sup>).

Rudolf Uhlen GmbH offers protective face shields for both classes of arc flashes which can be mounted on most standard electrician's protective helmets.



## Electrician's face shields

### Electrician's face shields made of polycarbonate for arc flashes 4 kA



Design		Article no. GFKES001	
Non-fogging	Protection against spattering	Protection against splinters	Protection against glare
UV-protection	Chemical protection	Hot areas	Cold areas
		<ul style="list-style-type: none"> <li>Face shield to protect against class 1 arcing faults (4 kA / 135 kJ/m<sup>2</sup>)</li> <li>Tested in accordance with DIN EN166, as well as the GS-ET-29 test principle and is VDE-approved</li> <li>The electrician's face shield is made entirely of plastic</li> <li>The flexible plastic profile fits on many helmets</li> <li>The visor is manufactured from 1,5 mm-thick polycarbonate</li> <li>It has excellent optical qualities, and its light transmittance VLT (D65) according to ISO 10527:2007 <math>i \geq 75\%</math></li> <li>The visor can be folded up and can be locked in place in any position by means of a screw connection</li> <li>The electrician's face shield is attached in a non-slip manner by means of a wide, adjustable elastic band</li> </ul>	
Article no.	Description	Abmessung	
GFKES001	Electrician's face shield 4 kA	460 x 200 x 1,5 mm	
GFKES001-2	Electrician's face shield 4 kA non-fogging	460 x 200 x 1,5 mm	

### Spare parts for the electrician's face shield 4 kA



Design		Article no. GBKES002 + GBKES003	
Non-fogging	Protection against spattering	Protection against splinters	Protection against glare
UV-protection	Chem.-Schutz	Warmbetrieb	Cold areas
		<ul style="list-style-type: none"> <li>The electrician's visor is made of 1,5 mm thick polycarbonate</li> <li>It has excellent optical qualities, and its light transmittance VLT (D65) according to ISO 10527:2007 is <math>\geq 75\%</math></li> <li>High impact strength (B – 120 m/s)</li> <li>Good UV protection</li> <li>High resistance to temperature extremes approx. -50°C to +135°C</li> <li>The hard hat bracket consists of the U-profile, the threaded connector, and the elastic band</li> <li>The specially shaped U-profile is made of 2 mm thick polycarbonate and fits many hard hats</li> <li>The elastic band is adjustable</li> </ul>	
Article no.	Description	Abmessung	
GBKES002	PC-Replacement visor	460 x 200 x 1,5 mm	
GBKES002-1	PC-Replacement visor non-fogging	460 x 200 x 1,5 mm	
GBKES003	Hard hat bracket for the Electrician's face shield		

### Electrician's face shield made of triacetate for arc flashes 4 kA



Design		Article no. GFKES008	
Non-fogging	Protection against spattering	Protection against splinters	Protection against glare
UV-protection	Chemical protection	Hot areas	Cold areas
		<ul style="list-style-type: none"> <li>Face shield to protect against class 1 arcing faults (4 kA / 135 kJ/m<sup>2</sup>)</li> <li>Tested in accordance with DIN EN166, as well as the GS-ET-29 test principle and is VDE-approved</li> <li>The electrician's face shield is made entirely of plastic</li> <li>The flexible plastic profile fits on many helmets</li> <li>The visor is manufactured from 1,4 mm-thick triacetate</li> <li>It has excellent optical qualities, and its light transmittance VLT (D65) according to ISO 10527:2007 is <math>\geq 75\%</math></li> <li>The visor can be folded up and can be locked in place in any position by means of a screw connection</li> <li>The electrician's face shield is attached in a non-slip manner by means of a wide, adjustable elastic band</li> </ul>	
Article no.	Description	Dimensions	
GFKES008	Electrician's face shield 4 kA	460 x 250 x 1,4 mm	
GFKES008-2	Electrician's face shield 4 kA non-fogging	460 x 250 x 1,4 mm	
GBKES025	TA-Replacement visor	460 x 250 x 1,4 mm	



## Electrician's face shield made of polycarbonate for arc flashes 7 kA

### Article no. GFKES002

- Face shield to protect against class 2 arcing faults (7 kA / 423 kJ/m<sup>2</sup>)
- Tested in accordance with DIN EN166, as well as the GS-ET-29 test principle and is VDE-approved
- The visor is manufactured from 1,7 mm-thick polycarbonate
- It has excellent optical qualities, and its light transmittance VLT (D65) according to ISO 10527:2007 is ≥75%
- For better protection of the ears, the visor is extended towards the back
- The visor can be folded up and can be locked in place in any position by means of a screw connection
- For protection against heat entering through the bottom edge of the shield, the visor has a chin protection with a Nomex bib

### Design

Non-fogging	Protection against spattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
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Article no.	Description	Dimensions
GFKES002	Electrician's face shield 7kA	550 x 200 x 1,7 mm
GFKES002-2	Electrician's face shield 7kA non-fogging	550 x 200 x 1,7 mm



## Spare parts for the electrician's face shield 7 kA

### Article no. GBKES014

- The electrician's visor is made of 1,7 mm thick polycarbonate
- It has excellent optical qualities, and its light transmittance VLT (D65) according to ISO 10527:2007 is ≥75%
- High impact strength (B – 120m/s)
- Good UV protection
- High temperature resistance approximately -50°C bis +135°C
- The hard hat bracket consists of the U-profile, the screw connection and the elastic band
- The specially shaped U-profile is manufactured from 2 mm thick polycarbonate and fits on many hard hats
- The elastic band is adjustable

### Design

Non-fogging	Protection against spattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
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Article no.	Description	Dimensions
GBKES014	PC-Replacement visor with chin guard	550 x 200 x 1,7 mm
GBKES003	Hard hat bracket for the Electrician's face shield	



## Electrician's hard hat BOP Energy 3000

### Article no. GFKHE022

- The helmet consists of hard-wearing thermoset material
- It is suitable for use in working under live conditions or in the proximity of parts which are live up to 1000 V AC or 1500 V DC (according to DIN EN 50365)
- Dimensionally stable at high temperatures
- Protection against arc flashes
- High lateral rigidity
- Insensitive to chemicals
- Improved force absorption in the case of side impacts due to the special padding strips (closed-cell)
- Electrical insulation according to DIN EN 397
- Conducts a maximum of 1,5 mA at 3000 V into the inner shell
- High wearing comfort and secure fit due to the ergonomically formed and height-adjustable inner side equipment

### Design

Non-fogging	Protection against spattering	Protection against splinters	Protection against glare	UV-protection	Chemical protection	Hot areas	Cold areas
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Article no.	Description
GFKHE022	Electrician's hard hat, white



## Hard hats

### Heat protection hard hat BOP with suspension I/79 GW

**Article no.** GFKHE006

- The hard hat is made of fiberglass polyester (UP-GF)
- It is dimensionally stable at high temperatures and therefore particularly well-suited for hot areas
- The hard hat has high impact strength and lateral rigidity
- The material is chemical-resistant and is highly resistant to aging
- Due to the ergonomically shaped and height-adjustable suspension, the hard hat is very comfortable to wear and fits securely
- The hard hat is available in many standard colors

**Article no.****Description**

GFKHE006

Heat protection hard hat BOP  
with 6-point suspension I/79 GW

### Industrial hard hat BER S with suspension I/79 G

**Article no.** GFKHE009

- The hard hat is made of high density polyethylene (HDPE)
- Proven industrial hard hat, which is suitable for cold areas
- Due to the HDPE-technology, the hard hat exhibits good impact absorption
- The hard hat comes standard with an adjustable side ventilation
- Due to its ergonomically designed and height-adjustable suspension, the hard hat is very comfortable to wear and fits securely
- The hard hat is available in many standard colors

**Article no.****Description**

GFKHE009

Industrial hard hat BER S  
with 6-point suspension I/79 G

## Heat protection hard hat INTEX

### Article no. GFKHE002

- The hard hat is made of phenol textile synthetic resin
- It is dimensionally stable at high temperatures and therefore particularly well-suited for hot areas
- If the hard hat comes into contact with heat, the shell of the hard hat will not drip
- The hard hat exhibits satisfactory stability and lateral rigidity
- The material is practically unbreakable at cold temperatures
- Due to its sturdy and very comfortable 6-point web suspension, the hard hat is very comfortable to wear and fits securely
- The hard hat is available in natural brown



Article no.	Description
GFKHE002	Heat protection hard hat INTEX with 6-point suspension

## Industrial hard hat INAP-Master-4

### Article no. GFKHE010

- The hard hat is made of polyethylene
- Proven industrial hard hat, which is suitable for cold areas
- The hard hat exhibits satisfactory abrasion resistance and good stability
- Ear muffs can be attached to the side slots
- The hard hat is electrically insulated and can be used as electrician's hard hat (but without ventilation in this case)
- Due to its sturdy and very comfortable 4-point web suspension, the hard hat is very comfortable to wear and fits securely
- The hard hat is available in many standard colors



Article no.	Description
GFKHE010	Industrial hard hat INAP-Master-4 with 4-point suspension











# Industrial Safety



[www.aschua-uhlen.de](http://www.aschua-uhlen.de)

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