

Product leaflet

Product
Face shield

Model No.
SR 540 EX

Ordering No.
H06-6012

Product Description

The SR 540 EX face shield together with the SR 500 EX fan has been approved for use in an explosive atmosphere. The breathing hose of the face shield is connected to the fan equipped with filters. The pressure generated inside the face shield prevents particles and other impurities from being admitted. The SR 540 EX face shield may also be used together with compressed air attachment SR 507 but in this case only in environments which are not potentially explosive. This combination forms a breathing apparatus designed for continuous air flow, for connection to a compressed air supply. See separate product leaflet SR 507. The equipment can be used as an alternative to filter protections in all situations in which the latter are recommended. This applies particularly to situations in which the work is intensive, hot or of long duration.

The SR 540 EX is characterized by the following:

- Protects the respiratory organs and top of the head
- The visor can be raised
- The PC visor is resistant to blows and scratching
- The supply air keeps the visor demisted
- Adjustable head harness
- Replaceable, flexible breathing hose
- Equipped with exhalation valve
- PET-G visor available as an accessory
- Available in one size.

Technical specification

	SR 540 EX + SR 500 EX	EN 12941:1998	SR 540 EX + SR 507	EN 14594:2005
Air flow rate	175–225 l/min	≥ 120 l/min	175–260 l/min	-
Working pressure	-	-	5-7 bar	≤ 10 bar
Service temperature	-10 – +40 °C, < 90 % RH	-	-10 – + 55 °C, < 90 % RH	-
Storage temperature	-20 – +40 °C, < 90 % RH	-	-20 – + 40 °C, < 90 % RH	-
Low flow warning level	< 175 l/min	≤ 175 l/min	< 175 l/min	≤ 175 l/min
Weight with breathing hose	≈ 700 g	≤ 1 500 g	≈ 700 g	≤ 1 500 g
Impact test with 6 mm dia. steel ball against visor	120 m/s	-	120 m/s	-
Assigned Protection Factor¹	40 (TH3)	-	40 (3A, 3B)	-
Nominal Protection Factor²	500 (TH3)	-	200 (3A, 3B)	-

Approvals

Directive
PPE Regulation (EU) 2016/425

ATEX 2014/34/EU

IECEx Scheme

Standards



EN 12941:1998 + A2:2008

EN 14594:2005

EN 60079-0:2012, EN 60079-11:2012,
EN 13463-1:2009

IEC 60079-0:2011, IEC 60079-11:2011

Classification/markings


TH3
Class 3A and 3B
 II 2 G Ex ib IIA T3 Gb³⁾
 II 2 D Ex ib IIIC T195°C Db³⁾
Ex ib IIA T3 Gb³⁾
Ex ib IIIC T195°C Db³⁾

1) Specified in BS 4275 and applies generally to all approved fan-assisted respiratory protective devices, regardless of the test results.

2) According to EN 529:2005.

3) Together with fan SR 500 EX.

Key to ATEX marking

-  Explosion protection mark.
- II Equipment group (explosive atmospheres other than mines with fire damp).
- 2 G Equipment category (2 = High level of protection for Zone 1, G = Gas).
- 2 D Equipment category (2 = High level of protection for Zone 21, D = Dust).
- Ex Explosion protected.
- ib Type of protection (Intrinsic safety).
- IIA Gas group (Propane).
- IIIC Dust material group (zone with conductive dust).
- T3 Temperature class, gas (maximum surface temperature +200°C).
- T195°C Temperature class, dust (maximum surface temperature +195°C).
- Gb Equipment Protection Level, gas (high protection).
- Db Equipment Protection Level, dust (high protection).

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- ib Type of protection (Intrinsic safety).
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- T3 Temperature class, gas (maximum surface temperature +200°C).
- T195°C Temperature class, dust (maximum surface temperature +195°C).

- Gb Equipment Protection Level, gas (high protection).
- Db Equipment Protection Level, dust (high protection).



Head Office

Tel: +46 10 484 87 00

Visiting address:
Stockholmsvägen 33
SE-181 33 Lidingö

Factory

Tel: +46 10 484 87 00

Visiting address:
Västergatan 4
SE-341 50 Lagan

SR 540 EX

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SR 507

SR 500 EX



Sundström
www.srsafety.com