



Area of use*



Technical features

Protective visor.

Material: 100% polycarbonate (ABS frame).

Dimension: 280 x 162 mm.

Thickness: 1,00 mm.

Packaging: carton of 20 pieces.

Subpackaging: individual polybag.

Advantages

- Light and durable** thanks to the material (polycarbonate).
- Optimal face protection** thanks to the spherical shape of the visor.
- Can be worn over prescription glasses.**
- To use with the PVHIMA visor holder.**



Certification

This product (+ HIMA + PVHIMA) complies with **European Regulation (EU) 2016/425** on Personal Protective Equipment (PPE). **Category II**. Issued by **Alienor Certification**, notified body n°2754.

EN ISO 16321-1: 2022

SINGER 1 U 1,2 E N CE

MARKING OF OCULAR

16321 SINGER U 1,2 E 3 1-M CE

MARKING OF FRAMES



Download the EU declaration of conformity on <http://docs.singer.fr>

MARKING OF OCULAR

SINGER  **B C D E CE**

MARKING OF FRAMES

A SINGER  **C D E F CE**

A STANDARDS*

EN ISO 16321-1	Eye and face protection for professional use. Part 1: general requirements
EN ISO 16321-2	Eye and face protection for professional use. Part 2: additional requirements (welding and related techniques)
EN ISO 16321-3	Eye and face protection for professional use Part 3: additional requirements (mesh protectors)

B OPTICAL POWER**

Without marking	Optical power improved or not.
1	Improved and claimed optical power.

C FILTER TYPE + SCALE NUMBER

U	UV protection filter.	<p>Scale from 1.2 to 5. (1,2/1,4/1,7/2/2,5/3/4/5).</p> <p>U 1.2 = Low radiation / wavelength < 313 nm. U 5 = Strong radiation in the visible and UV range.</p>																																
G	Sun protection filter.	<p>Scale from 0 to 4. (0/1/2/3/4).</p> <p>G 0 = No brightness / indoor use. G 4 = Extreme brightness / use in mountains & sea.</p>																																
R	IR protection filter.	<p>Scale from 1.2 to 10. (1,2/1,4/1,7/2/2,5/3/4/5/6/7/8/9/10).</p> <p>R 1.2 = Source of average temperatures up to 1050°C. R 10 = Source of average temperatures up to 2220°C.</p>																																
W	Welding filter.	<p>Scale from 1.2 to 16. (1,2/1,4/1,7/2/2,5/3/4/5/6/7/8/9/10/11/12/13/14/15/16).</p> <table border="1"> <thead> <tr> <th></th> <th>TIG</th> <th>MAG</th> <th>MIG</th> </tr> </thead> <tbody> <tr> <td>W 8</td> <td>10 – 30 A</td> <td>1,5 – 70 A</td> <td>/</td> </tr> <tr> <td>W 9</td> <td>30 – 70 A</td> <td>70 – 100 A</td> <td>70 – 125 A</td> </tr> <tr> <td>W 10</td> <td>70 – 125 A</td> <td>100 – 150 A</td> <td>125 – 175 A</td> </tr> <tr> <td>W 11</td> <td>125 – 200 A</td> <td>150 – 200 A</td> <td>175 – 225 A</td> </tr> <tr> <td>W 12</td> <td>200 – 300 A</td> <td>200 – 300 A</td> <td>225 – 300 A</td> </tr> <tr> <td>W 13</td> <td>300 – 350 A</td> <td>300 – 450 A</td> <td>300 – 400 A</td> </tr> <tr> <td>W 14</td> <td>/</td> <td>450 – 650 A</td> <td>400 – 500 A</td> </tr> </tbody> </table>		TIG	MAG	MIG	W 8	10 – 30 A	1,5 – 70 A	/	W 9	30 – 70 A	70 – 100 A	70 – 125 A	W 10	70 – 125 A	100 – 150 A	125 – 175 A	W 11	125 – 200 A	150 – 200 A	175 – 225 A	W 12	200 – 300 A	200 – 300 A	225 – 300 A	W 13	300 – 350 A	300 – 450 A	300 – 400 A	W 14	/	450 – 650 A	400 – 500 A
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The symbol L** can be used jointly (either UL, GL or RL).
It indicates the possibility of detecting traffic lights.

D MECHANICAL RESISTANCE

Without symbol	Minimum level of mechanical resistance.
C	Resistance to particles launched at 45 m/s.
D	Resistance to particles launched at 80 m/s.
E	Resistance to particles launched at 120 m/s.
HM	Resistance to high mass impacts.
<p>The symbol T can be used jointly (either CT, DT, ET or HMT). It indicates that the particles are launched at extreme temperatures during the test.</p>	

E USAGE ENVIRONMENT

Without symbol	General use.
K**	Anti-scratch. (Deterioration of surfaces by fine particles)
N**	Fog resistance.
3*	Droplets.
6*	Liquid splashes.
4*	Large dust particles.
5*	Gases and fine dust particles.
CH	Chemical resistance.
9	Molten metal and hot solids.
7	Radiant heat.

F HEAD SIZE*

1-S	Small sizes.
2-S	
1-M	Medium sizes.
2-M	
1-L	Large sizes.
2-L	

(*) Marking of frame only. (***) Marking of ocular only.