



S170 SPECULAR MIRROR

FINISH	Mirror	
TREATMENT	Electrolytically brightened and thin film anodized	
ALLOY	1085 – Al 99.85 %	EN 573-3
TEMPER	H18	EN 515

MECHANICAL PROPERTIES

TENSILE STRENGTH R _m	>140 MPa	EN 485-2
YIELD STRENGTH R _{p0.2}	>120 MPa	EN 485-2
ELONGATION A ₅₀	>1 %	EN 485-2

OPTICAL PROPERTIES

TOTAL REFLECTANCE	88 – 90 %	DIN 5036-3 (Technidyne TR2)
DIFFUSE REFLECTANCE	<13 %	DIN 5036-3 (Ulbricht Globe)
SPECULAR REFLECTANCE 60°- along	82 – 85 %	ISO 7668 (BYK micro-tri-gloss)
SPECULAR REFLECTANCE 60° - across	81 – 84 %	ISO 7668 (BYK micro-tri-gloss)
IRIDESCENCE	NO IRIDESCENCE	INTERNAL

Optical values are average results from 0.4mm metal and are published for guidance only; they may vary according to metal thickness.

Protection

Coils and sheets can be supplied with a peelable protective film on the front side: either standard polyethylene film or film suitable for fiber or CO₂ laser cutting are available. Paper interleaves are available on sheets only.

Storage conditions

Store in a temperate and dry warehouse (temperature 20-30°C and relative humidity 50-60%), away from sunlight, UV light and heat. Drastic temperature changes and humidity must be avoided.

Note that the protective tape is not UV resistant. If stored according to these guidelines, products with peelable protective film are guaranteed for 6 months after delivery.

Dimensional Tolerances

Thickness tolerance:

- material < 1mm: ± 0,03 mm
- material ≥ 1mm: according to EN 485-4

Width tolerance:

- slit coils: ± 0,15 mm
 - original width: according to EN 485-4
- Length tolerance (sheets): 1 mm/m

Some materials or articles may differ from these general tolerances due to the production processes. For detailed information, please contact our sales office.

Health and environment

The items supplied meet the requirements of Directive 2011/65/EU concerning the "restriction of the use of certain hazardous substances in electrical and electronic equipment" and do not contain the substances listed in Directive 2015/863/EC (RoHS III) in a concentration higher than the maximum values allowed.

None of the items supplied contains substances included in the "Candidate List of SVHC Substances (Substances of Very High Concern)", included in the updates of Regulation n. 1907/2006 and Regulation 2018/675.

All information is provided as a guide according our most up-to-date knowledge at the date of issue.

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