

Product data sheet



Product: MT1300
mirotherm®
selective absorptive layer

4700/0140/011/09.22

Additional information The special mirotherm® coating is ideal for your solar thermal systems and absorbs both direct sunlight and diffuse radiation. The patented mirotherm® surface achieves a solar absorption factor of up to 96% with a thermal emissivity of at least 3%.

Alloy ¹ Al 1050 or purer
Hardness ² H18

Treatment front side (S1) PVD-coated
Treatment reverse side (S2) anodised

Coating system (S1) selective absorptive layer

Supply form

Metal Thickness [mm] Coil, strip, sheet, blanks 0,30 - 0,50
Width up to [mm] 1250,00

Optical Values

Solare Absorption [sol] 0,95 ± 0,01
Thermal emission at 212 °F [] 0,05 ± 0,02
Colour value a* [-] -12 up to 0 DIN 5033-7 (10°)
Colour value b* [-] -25 up to 0 DIN 5033-7 (10°)

Mechanical Properties

Tensile strength Rm [MPa] min 140
Yield strength Rp 0,2 [MPa] min 120
Elongation at break A50 [%] min 2
Bending radius 1,5 x gauge of material

Tolerances

Metal Thickness [mm] ± 0,04
max Width/Coil [mm] + 3,00 / - 0,00
Width Slit Coil [mm] ± 0,20 standard
Longitudinal Curvature [mm] 1,00 on a measuring length of 1000 mm
Length [mm] 0 - 600 + 1,00 / - 0,00
[mm] 601 - 1500 + 1,50 / - 0,00
[mm] 1501 - 2500 + 2,50 / - 0,00
[mm] 2501 - 3500 + 3,50 / - 0,00
Flatness [%] 2 % of wavelength
Transversal Divergency [mm] 1,5 (D1-D2)
other tolerances on request

Protective Film

Protective Film Type [-] PE - Film
Protective Film Thickness [µm] 50 - 60

¹ based on DIN EN 573-3 (Aluminium) resp. Rolling mill standard

² based on DIN EN 485-2 (Aluminium) resp. Rolling mill standard

