

# Product data sheet



Product: MT1300C  
mirotherm® Control  
solar selective absorptive layer

4700/1144/001/11.18

Alloy <sup>1</sup> Al 1050 or purer  
Hardness <sup>2</sup> H18

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

Coating system (S1) selective absorptive layer with temperature dependent emissivity <sup>3</sup>

## Supply form

Metal Thickness [mm] Coil, strip, sheet 0,40 / 0,50 ± 0,04  
Width up to [mm] 1250,00

## Optical Values

Solare Absorption [ sol] 0,96 ± 0,01  
Thermal Emission [ ] @ 30°C [ ] 0,23 ± 0,02  
Thermal Emission [ ] @ 80°C [ ] 0,26 ± 0,02  
Thermal Emission [ ] @ 200°C [ ] 0,37 ± 0,03  
Colour value a\* [-] -12,00 a\* 18 DIN 5033-7 (10°)  
Colour value b\* [-] -36,00 b\* -20 DIN 5033-7 (10°)

## Mechanical Properties

Tensile strength Rm [MPa] >140  
Yield strength Rp 0,2 [MPa] >120  
Elongation at break A50 [%] 2  
Bending radius 1.5 x gauge of material

## Tolerances

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  
color measurements done before application of protection film

<sup>3</sup> qualified according to DIN EN ISO 22975-3

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

<sup>2</sup> based on DIN EN 485-2 (Aluminium) resp. Rolling mill standard

