

Product data sheet



Product: Eta plus Cu
eta plus® CU

4700/0846/004/06.23

Additional information eta plus® achieves a very high solar absorption of up to 96% – combined with a very low thermal emissivity of just 4%.

Alloy ¹ Copper
Hardness ² 1/2 hard

Treatment front side (S1) PVD-coated

Coating system (S1) selective absorptive layer

Supply form

Metal Thickness [mm] Coil, strip, sheet, blanks
Width up to [mm] 0,12 - 0,25
[mm] 1250,00 in thickness 0,20
[mm] 1105,00 in thickness 0,12 and 0,25

Optical Values

Solare Absorption [sol] 0,95 ± 0,02
Thermal emission at 212 °F [@ 100°C] 0,05 ± 0,02
Colour value a* [-] +4 up to +11 DIN 5033-7 (10°)
Colour value b* [-] -25 up to -16 DIN 5033-7 (10°)

Physical Properties

Thermal conductivity [W/(m*K)] 295 - 395

Mechanical Properties

Yield strength Rp 0,2 [MPa] 180
Tensile strength Rm [MPa] 240
Elongation at break A50 [%] 8

Tolerances

Metal Thickness [mm] 0,12 - 0,25 ± 0,02
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

