

Cu-ETP, Cu-PHC tinned

Tinning copper improves the solderability and the resistance towards corrosion. The process of tinning by roll cladding (joint rolling of copper with tin foils) makes tinning without flux agents possible and can also be done with various tin alloys. Roll cladding provides an excellent connection between the layers of the composite. The subsequent cold rolling of the composite to the desired thickness leads to a consistent tin layer over width and length of the strip. Both single- and double-sided tinning is possible with roll cladding.

CORE MATERIAL	Cu-ETP only for R200	Cu-PHC only for R360
TIN SOLDER	MELTING POINT of TIN LAYER	ROHS-COMPLIANT
· Sn96,8Sb1,6Zn1,6Pb0,2 (Sn96,8)	232 °C	
· Sn100	232 °C	✓
· Sn96,5Ag3,5	221 °C	✓
· Sn62Pb36Ag2	179 °C	
· Sn60Pb40	183 – 190 °C	
· Sn96,5Ag3Cu0,5	217 – 220 °C	✓
· Sn97,5Cu2,25Ag0,25	226 – 232 °C	✓

DELIVERY FORMS	THICKNESS	WIDTH
Rolls, spools	0,01 - 0,4 mm	0,6 - 320 mm <i>(others on request)</i>

Not all combinations of thickness and width are available
For different dimensions, please contact our technical service

TINNING PROCESS	TYPE	LAYER THICKNESS/ Side in relation to total thickness	SURFACE
roll clad flux free, edges not tinned	· single side · both sides	4 %; 5,6 %; 10 % and 13 %	· regular rolled finish · reflow
Roll clad and hot dipped tinned ¹ flux-free, edges not tinned	· both sides	4 %	· reflow

¹ roll clad and hot dip tinned = roll clad with Sn96,8 and subsequently hot dip tinned with Sn60Pb40 is valid only for foils with thickness 0,05 mm

TYPICAL TEMPER VALUES (information only)			
	Tensile strength Rm in MPa	Yield strength Rp0,2 in MPa	Elongation in % L ₀ = 100 mm
R200	≤ 250	≤ 100	> 10
R360	≥ 360	≥ 320	< 5

The values in the table are only valid for thicknesses > 0,1 mm

For further information please visit our website: <https://www.schlenk.com>