

CuNi10Fe1Mn

Designation	EN / CuNi10Fe1Mn	EN / CW352H	UNS / C70600
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This copper alloy with low levels of iron and manganese shows very good mechanical workability and has good corrosion properties.

COMPOSITION OF MATERIAL

- Cu: 86 - 89,7 %
- Ni: 9 - 11 %
- Fe: 1 - 2 %
- Mn: 0,5 - 1 %

PHYSICAL PROPERTIES

• Density	8,9 g/cm ³
• Melting point	1100 - 1145 °C
• Electrical conductivity	5 m/Ω mm ² (at 20 °C R300)
• Electrical resistivity	0,19 Ω mm ² /m (at 20 °C R300)
• Temperature coefficient of electrical resistance	7·10 ⁻³ /K (at 0 to 150 °C R300)
• Thermal conductivity	50 W/K m (at 20 °C)
• Thermal capacity	0,38 J/g K (at 20 °C)
• Coefficient of thermal expansion (linear)	17·10 ⁻⁶ /K (at 20 to 300 °C)
• Modulus of elasticity (tensile)	135 GPa (at 20 °C R300)

MANUFACTURING PROGRAM	THICKNESS	WIDTH
Rolls, spools, sheets	0,02 - 0,15 mm	1 - 610 mm

*not all combinations of thickness and width are available
or different dimensions please contact our technical service*

TEMPER ACCORDING TO DIN EN 1652			TYPICAL VALUES (information only)
	Tensile strength Rm in MPa	Yield strength Rp0,2 in MPa	Elongation in % L ₀ = 100 mm
R300	≥ 300	≥ 100	-
R320	≥ 320	≥ 200	> 8

The values in the table are valid only for foils with thickness > 0,1 mm.

For further information please visit our website: <https://www.schlenk.com>
You will find further information at: <https://copperalliance.eu>