

MATERIAL DATA SHEET · COPPER-NICKEL (CU-NI)

Copper-Nickel 70/30 (UNS C71500) — Chemical Composition & Mechanical Properties

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Copper-Nickel 70/30 (UNS C71500) is a copper-nickel (cu-ni) grade for cu-ni pipe, fittings & flanges (UNS C71500, EN / W.Nr CW354H (2.0882)). It is also known as CuNi30Mn1Fe. This sheet summarises its chemical composition limits, minimum mechanical properties, heat treatment and typical service. Teshi Group supplies this grade as a stockist and supplier, and manufactures matching flanges and fittings.

At a glance

Material family	Copper-nickel (Cu-Ni)
Product form	Cu-Ni pipe, fittings & flanges
UNS	C71500
EN / W.Nr	CW354H (2.0882)
Also known as	CuNi30Mn1Fe

Mechanical properties

Tensile strength, min	359 MPa
Yield strength (0.2 % offset), min	124 MPa
Hardness	Not specified

Chemical composition (weight %)

Cu balance	Ni 29.0–33.0	Fe 0.40–1.0	Mn 1.0 max	Zn 1.0 max
Pb 0.05 max				

Single values are maximums unless shown as a range or “min”.

Heat treatment

Annealed (O60, soft anneal)

Typical service

High-velocity seawater, condensers and desalination

International equivalents (nearest)

USA — specification	Copper-Nickel 70/30 (UNS C71500)
USA — UNS	C71500
Europe — EN designation	CuNi30Mn1Fe (EN 12449)
Europe — W.Nr	CW354H (2.0882)
Japan — JIS	C7150 (JIS H3300)
China — GB / NB	BFe30-1-1 (GB/T 8890)
China — old GB designation	BFe30-1-1
UK — BS (withdrawn)	CN107

Same alloy in other product forms

Seamless pipe	ASTM B466 C71500
Welded pipe	ASTM B467 C71500
Flanges	ASTM B151 bar
Plate	ASTM B171 C71500

Teshi Group — OEM manufacturer of flanges, pipe fittings, fasteners, valves and fabrications; stockist and supplier of pipes, plates and structural steel. ISO 9001:2015 · IBR approved · since 1971. Enquiries: info@teshigroup.com · sales@teshigroup.com · +91 78900 09110

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