TorqBolt Inc.

MATERIAL GRADE DATA SHEET

CuNi70-30 COPPER NICKEL ALLOY

BOLTING MATERIAL FOR HIGH TEMPERATURE SERVICE

Copper-nickel alloys have very good resistance to biofouling and marine corrosion, and possess good fabricability. Copper gains more strength and corrosion resistance when nickel is added to it. UNS C71500 copper-nickel (cupronickel) alloy has medium high strength and good creep resistance at high temperatures. This alloy is expensive in comparison with copper-aluminum alloys and other alloys with similar mechanical properties.

Chemical Properties

Cu	Pb	Fe	Zn	Ni	Mn
70	0.5 max	0.4-1.0	1 max	29-33	1 max

Mechanical Properties

Yeild strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
88.0-483	372-517	45

Physical Properties

Density	Elastic Modulus	Mean Coefficient of Thermal	Thermal Conductivity	Melting Point
(Kg/m^3)	(Gpa)	Expansion(µm/m/°C)	(W/m.K)	(nΩ.m)
8.94	117	16.2	29	1171

Equivalent Designation

UNS C71500
Din CuNi30Mn1Fe
BS2871

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