Baksar - N01

CuNi10Fe1Mn | C70600 | CW352H

Baksar N01 is a copper nickel alloy with good hard soldering and welding properties, good cold formability, high temperature strength and excellent corrosion resistance to sea water in particular.
The main applications are heat exchangers, apparatus construction, Oilcooler, Fresh water applications, air conditioning, finned tubes and brake lines.
CuNi10Fe1Mn is resistant to pitting- and stress corrosion cracking, as well as to hot seawater. It has a great resistance to moisture, non-oxidizing acids, to dry gases such as oxygen, chlorine, hydrogen chloride, hydrogen fluoride, sulfur dioxide, carbon dioxide.

Chemical Composition	
Cu	Remaining
Ni	9,0 – 11,0 %
Fe	1,0 – 2,0 %
Mn	0,5 – 1,0 %
Pb	max 0,02 %
S, Sn, C	max 0,05 %
Zn	max 0,5 %

Physical properties (Reference values at room temperature)			
Electrical conductivity	MS/m	57	%IACS
Thermal conductivity	W/(m.K)	46	Btu.ft/(ft2.h.F)
Coefficient of thermal expansion*	10^-6/K	17	10^-6/F
Density	10^-6/K	8,9	lb/in^3
Modulus of elasticity	GPa	130	ksi

Mechanical Properties			
Reference Values at 20C Celsius	Annealed r290	Half-Hard R310	Cold Drawn R480
Tensile Strenght	≥ 290	≥ 310	≥ 480
Yield Strenght (MPa)	≥ 90	≥ 220	≥ 400
Elongation A5 (%)	≥ 30	≥ 12	≥ 8
Hardness HV	75-105	105-150	≥ 150

Types and formats available*
Straight Lenght upto 5 meters

*Inner and Outer diameters varies upon customer order. For other lenghts, please contact our sales team.

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The characteristics of the above products are for reference only, and may not reflect the actual properties of the materials.