

CuNi10Fe1Mn | Round bars

DATA SHEET



Alloy	CuNi10Fe1 Mn, CW352H	
Condition	Ø 10-55 mm drawn Ø 60-120 mm extruded Ø 150 mm cast & machined	
Norm	DIN EN 12163	
Tolerance	DIN 1756, h11 Ø 10 mm +0/-0.09 mm Ø 11-18 mm +0/-0.11 mm Ø 19-30 mm +0/-0.13 mm Ø 31-50 mm +0/-0.16 mm Ø 55 mm +0/-0.19 mm Ø 60-70 mm +0/-0.7 mm Ø 75-100 mm +0/-1.2 mm Ø 120 mm +0/-1.5 mm Ø 150 mm +2/-0 mm	
Machinability	bad	
Hot Workability	good	
Cold Workability	very good	
REACH	no obligation	
RoHS	conform	

Mechanical Properties

	Tensile strength R_m	Yield stress $R_{p0.2}$	Elongation A	Hardness HB
R280-H070	$\geq 280 \text{ N/mm}^2$	$\geq 90 \text{ N/mm}^2$	$\geq 30\%$	70-100

Excellent resistance to erosion, cavitation and corrosion (especially seawater). Good weldability. Seawater lines, tubes, plates and sheets for heat exchangers and condensers. Air conditioners, apparatus engineering, brake lines.

Chemical Analysis

Cu	86.0-89.7%
Ni	9.0-11.0%
Fe	1.0-2.0%
Mn	0.5-1.0%
C	max. 0.05%
Co	max. 0.1%
P	max. 0.02%
Pb	max. 0.02%
S	max. 0.05%
Sn	max. 0.03%
Zn	max. 0.5%

Comparable Specifications

CuNi10Fe1Mn, 2.0872, DIN 17664
C70600 UNS
CN 102 BS

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