

Ametek AM 388™ Alloy (UNS C72650) TD02 1/2 Hard

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

Information supplied by Ametek Specialty Metal Products Division. Copper base Spinodal alloy with high conductivity and high strength. Outstanding performance for contacts in connectors, sockets and switches. Benefits include combination of high strength and formability, high conductivity, available in mill hardened or age hardenable tempers, no distortion during aging, no fixturing required, excellent solderability and resistance to stress relaxation during high temperature (over 400°F, 200°C) soldering, fine grain size, excellent corrosion resistance bare and easy to plate when required, low initial cost, and additional savings during processing. Aging Temperature/Time 700°F-725°F (370°C-385°C)/1.5-3 hrs.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ametek-AM-388-Alloy-UNS-C72650-TD02-12-Hard.php

Physical Properties	Metric	English	Comments
Density	8.87 g/cc	0.320 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	175 - 225	175 - 225	
Tensile Strength, Ultimate	517 - 586 MPa	75000 - 85000 psi	
Tensile Strength, Yield	482 - 551 MPa @Strain 0.200 %	69900 - 79900 psi @Strain 0.200 %	
Elongation at Break	5.0 - 11 %	5.0 - 11 %	typical
Modulus of Elasticity	124 GPa	18000 ksi	

Component Elements Properties	Metric	English	Comments
Copper, Cu	87 %	87 %	as balance
Nickel, Ni	7.0 - 8.0 %	7.0 - 8.0 %	
Other	<= 0.50 %	<= 0.50 %	
Tin, Sn	4.5 - 5.5 %	4.5 - 5.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000115 - 0.0000123 ohm-cm	0.0000115 - 0.0000123 ohm-cm	Conductivity 14 - 15% IACS

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