

Ametek AM 388™ Alloy (UNS C72650) TS03

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. Spinodal Age Hardening Treatment 725°F (385°C)/2 hrs.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ametek-AM-388-Alloy-UNS-C72650-TS03.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	310 - 360	310 - 360	
Tensile Strength, Ultimate	965 - 1034 MPa	140000 - 150000 psi	
Tensile Strength, Yield	896 - 965 MPa @Strain 0.200 %	130000 - 140000 psi @Strain 0.200 %	
Elongation at Break	6.0 - 8.0 %	6.0 - 8.0 %	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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