

## CLAL-MSX DECLAFOR® 1015 TH1 Rod quenched/Cold Rolled/Precipitation Heat Treated Copper Alloy

Category : Metal , Nonferrous Metal , Copper Alloy

### Material Notes:

Main Characteristic: Age hardening alloy Beryllium free alloy Good machinability High mechanical properties  
 Typical Applications: Coaxial connectors Spectacles parts Sliding contacts parts All kind of turned parts  
 Information provided by CLAL-MSX

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CLAL-MSX-DECLAFOR-1015-TH1-Rod-quenchedCold-RolledPrecipitation-Heat-Treated-Copper-Alloy.php](http://www.lookpolymers.com/polymer_CLAL-MSX-DECLAFOR-1015-TH1-Rod-quenchedCold-RolledPrecipitation-Heat-Treated-Copper-Alloy.php)

Physical Properties	Metric	English	Comments
Density	8.80 g/cc	0.318 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	230 - 290	230 - 290	
Tensile Strength, Ultimate	780 - 840 MPa	113000 - 122000 psi	
Tensile Strength, Yield	550 - 750 MPa @Strain 0.200 %	79800 - 109000 psi @Strain 0.200 %	
Elongation at Break	>= 10 %	>= 10 %	Alo 100 mm
Modulus of Rigidity	115 GPa	16700 ksi	Torsion

Thermal Properties	Metric	English	Comments
CTE, linear	17.2 µm/m-°C @Temperature 0.000 - 200 °C	9.56 µin/in-°F @Temperature 32.0 - 392 °F	
Thermal Conductivity	55.0 W/m-K	382 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	960 °C	1760 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	87 %	87 %	
Nickel, Ni	7.5 %	7.5 %	
Other	0.50 %	0.50 %	
Tin, Sn	5.0 %	5.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000130 ohm-cm	0.0000130 ohm-cm	

Descriptive Properties	Value	Comments
Color	Pinky roseate	

## Contact Songhan Plastic Technology Co.,Ltd.

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