

## CLAL-MSX NICLAL 38 Copper Alloy

Category : Metal , Nonferrous Metal , Copper Alloy

### Material Notes:

Description: Niclal 38 is a precision resistance alloy, with moderate Resistivity, low Temperature coefficient of resistance and low thermal EMF versus Copper. With high stability of electrical resistance, good working properties and very good weldability, Niclal 38 is specially dedicated to precision resistors, electrical shunts which control and measure the current through devices such electricity meters or DC ammeters. Information provided by CLAL-MSX

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CLAL-MSX-NICLAL-38-Copper-Alloy.php](http://www.lookpolymers.com/polymer_CLAL-MSX-NICLAL-38-Copper-Alloy.php)

Physical Properties	Metric	English	Comments
Density	8.77 g/cc	0.317 lb/in <sup>3</sup>	

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	10.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
Thermal Conductivity	22.0 W/m-K	153 BTU-in/hr-ft <sup>2</sup> - $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Copper, Cu	86 %	86 %	
Manganese, Mn	10 %	10 %	
Nickel, Ni	4.0 %	4.0 %	

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