

Special Metals INCONEL® MA758 Oxide-Dispersion-Strengthened Ni-Cr Superalloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Data provided by the manufacturer, Special Metals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Special-Metals-INCONEL-MA758-Oxide-Dispersion-Strengthened-Ni-Cr-Superalloy.php

Physical Properties	Metric	English	Comments
Density	8.14 g/cc	0.294 lb/in ³	

Thermal Properties	Metric	English	Comments
CTE, linear	12.47 $\mu\text{m/m-}^\circ\text{C}$	6.928 $\mu\text{in/in-}^\circ\text{F}$	Mean
	@Temperature 25.0 - 92.0 $^\circ\text{C}$	@Temperature 77.0 - 198 $^\circ\text{F}$	
	13.18 $\mu\text{m/m-}^\circ\text{C}$	7.322 $\mu\text{in/in-}^\circ\text{F}$	Mean
	@Temperature 25.0 - 316 $^\circ\text{C}$	@Temperature 77.0 - 601 $^\circ\text{F}$	
Melting Point	14.11 $\mu\text{m/m-}^\circ\text{C}$	7.839 $\mu\text{in/in-}^\circ\text{F}$	Mean
	@Temperature 25.0 - 482 $^\circ\text{C}$	@Temperature 77.0 - 900 $^\circ\text{F}$	
Solidus	15.03 $\mu\text{m/m-}^\circ\text{C}$	8.350 $\mu\text{in/in-}^\circ\text{F}$	Mean
	@Temperature 25.0 - 760 $^\circ\text{C}$	@Temperature 77.0 - 1400 $^\circ\text{F}$	
Maximum Service Temperature, Air	≥ 1375 $^\circ\text{C}$	≥ 2507 $^\circ\text{F}$	for demanding high temp uses

Component Elements Properties	Metric	English	Comments
Aluminum, Al	≤ 0.30 %	≤ 0.30 %	
Carbon, C	0.050 %	0.050 %	
Chromium, Cr	30 %	30 %	
Iron, Fe	1.0 %	1.0 %	
Nickel, Ni	67.5 %	67.5 %	As remainder

Titanium Ti Component Elements Properties	0.50 % Metric	0.50 % English	Comments
Y2O3	0.60 %	0.60 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0001139 ohm-cm	0.0001139 ohm-cm	

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