

Latrobe Lescalloy® Jethete M-152 ESR 3" RD High Strength Stainless Steel

Category : Metal , Ferrous Metal , Stainless Steel

Material Notes:

LESCALLOY JETHETE M-152 ESR is a nitrogen bearing, hardenable 12% chromium stainless steel intended for various structural components requiring high strength and good oxidation resistance up to 800°F. Electrode slag remelting is employed to assure preferred ingot solidification and superior cleanliness for critical applications. Information Provided by Timken Latrobe Steel. Timken sold Latrobe in December 2006. They are now Latrobe Specialty Steels Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Latrobe-Lescalloy-Jethete-M-152-ESR-3-RD-High-Strength-Stainless-Steel.php

Physical Properties	Metric	English	Comments
Specific Gravity	7.76 g/cc	7.76 g/cc	
Density	7.75 g/cc	0.280 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1310 - 1370 MPa	190000 - 199000 psi	
Tensile Strength, Yield	1061 - 1096 MPa @Strain 0.200 %	153900 - 159000 psi @Strain 0.200 %	
Elongation at Break	20 - 21 %	20 - 21 %	% in 4D
Reduction of Area	71 - 72 %	71 - 72 %	
Modulus of Elasticity	213 GPa	30900 ksi	
	170 GPa @Temperature 538 °C	24600 ksi @Temperature 1000 °F	
	199 GPa @Temperature 260 °C	28800 ksi @Temperature 500 °F	
Notched Tensile Strength	2068 - 2227 MPa	299900 - 323000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.2 µm/m-°C @Temperature 20.0 - 260 °C	6.22 µin/in-°F @Temperature 68.0 - 500 °F	
	12.1 µm/m-°C @Temperature 20.0 - 538 °C	6.72 µin/in-°F @Temperature 68.0 - 1000 °F	

Thermal Properties	Metric	English	Comments
Component Elements Properties	Metric	English	Comments
Carbon, C	0.14 %	0.14 %	
Chromium, Cr	12 %	12 %	
Iron, Fe	82.175 %	82.175 %	
Manganese, Mn	0.70 %	0.70 %	
Molybdenum, Mo	1.75 %	1.75 %	
Nickel, Ni	2.75 %	2.75 %	
Nitrogen, N	>= 0.035 %	>= 0.035 %	
Silicon, Si	0.15 %	0.15 %	
Vanadium, V	0.30 %	0.30 %	

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