

Latrobe Lescalloy® HY-180 VIM-VAR ; .375 - 2 thickness High Strength Alloy Steel

Category : Metal , Ferrous Metal , Alloy Steel , Carbon Steel , Medium Carbon Steel

Material Notes:

LESCALLOY HY-180 VIM-VAR steel is a high strength alloy steel with superior toughness. It is double vacuum melted (VIM-VAR is vacuum induction melted followed by vacuum arc remelting) to provide superior cleanliness and ingot homogeneity, and to enhance mechanical properties. Mechanical Properties from FMS-1111 Specification 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-HY-180-VIM-VAR-375-2-thickness-High-Strength-Alloy-Steel.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1310 MPa	190000 psi	
Tensile Strength, Yield	1241 MPa	180000 psi	
Elongation at Break	15 %	15 %	
Reduction of Area	65 %	65 %	
Modulus of Elasticity	190 GPa	27600 ksi	
Charpy Impact	81.0 J @Temperature -17.8 °C	59.7 ft-lb @Temperature 0.000 °F	V-notch

Component Elements Properties	Metric	English	Comments
Carbon, C	0.13 %	0.13 %	
Chromium, Cr	2.0 %	2.0 %	
Cobalt, Co	8.0 %	8.0 %	
Iron, Fe	78.72 %	78.72 %	
Manganese, Mn	0.10 %	0.10 %	
Molybdenum, Mo	1.0 %	1.0 %	
Nickel, Ni	10 %	10 %	
Silicon, Si	0.050 %	0.050 %	

Chemical Properties	Metric	English	Comments
Critical Temperature	166 °C	331 °F	Mf
	327 °C	621 °F	Ms
	624 °C	1160 °F	Ac1
	793 °C	1460 °F	Ac3

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