

Latrobe Marvac 250 VIM-VAR ; 5 in. High Strength Maraging Steel

Category : Metal , Ferrous Metal , Carbon Steel , Low Carbon Steel , Maraging Steel

Material Notes:

MARVAC 250 VIM-VAR is a low carbon maraging steel capable of 240,000 psi minimum yield strength, coupled with excellent toughness and ductility. The alloy has good fabrication characteristics, which include a low rate of work hardening, good machinability and weldability, and a very simple heat treatment process. Marvac 250 is produced by vacuum induction melting followed by VAC-ARC remelting. This approach provides superior cleanness and a preferred ingot structure to enhance transverse mechanical properties. Marvac 250 is supplied in the solution annealed condition. 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-Marvac-250-VIM-VAR-5-in-High-Strength-Maraging-Steel.php

Physical Properties	Metric	English	Comments
Density	8.00 g/cc	0.289 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1840 MPa	267000 psi	
Tensile Strength, Yield	1725 - 1730 MPa @Strain 0.200 %	250200 - 251000 psi @Strain 0.200 %	
Elongation at Break	12 - 12.2 %	12 - 12.2 %	
Reduction of Area	55 - 56 %	55 - 56 %	
Fracture Toughness	>= 82.0 MPa-m ^{1/2}	>= 74.6 ksi-in ^{1/2}	

Thermal Properties	Metric	English	Comments
CTE, linear	10.8 Åµm/m-Å°C @Temperature 23.0 - 482 Å°C	6.00 Åµin/in-Å°F @Temperature 73.4 - 900 Å°F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.10 %	0.10 %	
Carbon, C	0.010 %	0.010 %	
Cobalt, Co	7.75 %	7.75 %	
Iron, Fe	68.24 %	68.24 %	
Manganese, Mn	0.10 %	0.10 %	

Component Elements Properties	Metric	English	Comments
Nickel, Ni	18.5 %	18.5 %	
Silicon, Si	0.10 %	0.10 %	
Titanium, Ti	0.40 %	0.40 %	

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