

Latrobe Marvac 300 VIM-VAR ; 5 RCS High Strength Maraging Steel

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

Material Notes:

MARVAC 300 VIM-VAR is a low carbon maraging steel capable of 270,000 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 300 is produced by vacuum induction melting followed by VAC-ARC remelting. This approach provides superior cleanliness and a preferred ingot structure to enhance transverse mechanical properties. Marvac 300 is supplied in the solution annealed condition. Solution annealed and aged at 900°F 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-300-VIM-VAR-5-RCS-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	2060 MPa	299000 psi	
Tensile Strength, Yield	1965 MPa @Strain 0.200 %	285000 psi @Strain 0.200 %	
Elongation at Break	7.8 %	7.8 %	
Reduction of Area	38 %	38 %	
Fracture Toughness	>= 66.0 MPa-m ^{1/2}	>= 60.1 ksi-in ^{1/2}	

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

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.10 %	0.10 %	
Carbon, C	0.010 %	0.010 %	
Cobalt, Co	9.0 %	9.0 %	
Iron, Fe	66.75 %	66.75 %	
Manganese, Mn	0.10 %	0.10 %	

Component Elements Properties	Metric	English	Comments
Nickel, Ni	1.8 %	1.8 %	
Silicon, Si	0.10 %	0.10 %	
Titanium, Ti	0.64 %	0.64 %	

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