Latrobe Marvac 300 VIM-VAR ; 10 in. 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 cleanness and a preferred ingot structure to enhance transverse mechanical properties. Marvac 300 is supplied in the solution annealed condition.Solution annealed and aged at 900Â°FInformation 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-10-in-High-Strength-Maraging-Steel.php

Physical Properties	Metric	English	Comments
Density	8.00 g/cc	0.289 lb/inÂ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	2050 MPa	297000 psi	
Tensile Strength, Yield	1960 MPa @Strain 0.200 %	284000 psi @Strain 0.200 %	
Elongation at Break	6.8 %	6.8 %	
Reduction of Area	30 %	30 %	
Fracture Toughness	>= 66.0 MPa-mÂ½	>= 60.1 ksi-inÂ½	

Thermal Properties	Metric	English	Comments
CTE, linear	10.8 Âµm/m-Â°C @Temperature 23.0 - 482 Â°C	6.00 Âµin/in-Â°F @Temperature 73.4 - 900 Â°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
Molybdenum, Mo	4.8 %	4.8 %	
Nickel, Ni	18.5 %	18.5 %	
Silicon, Si	0.10 %	0.10 %	
Titanium, Ti	0.64 %	0.64 %	

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