

## Latrobe Marvac 300 VIM-VAR ; 6.25 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 900Å°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-625-in-High-Strength-Maraging-Steel.php](http://www.lookpolymers.com/polymer_Latrobe-Marvac-300-VIM-VAR-625-in-High-Strength-Maraging-Steel.php)

| Physical Properties | Metric    | English       | Comments |
|---------------------|-----------|---------------|----------|
| Density             | 8.00 g/cc | 0.289 lb/inÅ³ |          |

| Mechanical Properties      | Metric                      | English                       | Comments |
|----------------------------|-----------------------------|-------------------------------|----------|
| Tensile Strength, Ultimate | 2100 MPa                    | 304000 psi                    |          |
| Tensile Strength, Yield    | 1980 MPa<br>@Strain 0.200 % | 287000 psi<br>@Strain 0.200 % |          |
| Elongation at Break        | 7.8 %                       | 7.8 %                         |          |
| Reduction of Area          | 33 %                        | 33 %                          |          |
| Fracture Toughness         | >= 66.0 MPa-mÅ½             | >= 60.1 ksi-inÅ½              |          |

| Thermal Properties | Metric  | English   | Comments |
|--------------------|---|---|----------|
| CTE, linear        | 10.8 Åµm/m-Å°C<br>@Temperature 23.0 - 482 Å°C | 6.00 Åµin/in-Å°F<br>@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                    | 9.0 %   | 9.0 %   |          |
| Iron, Fe                      | 66.75 % | 66.75 % |          |
| 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                  | 0.64 % | 0.64 %  |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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