

ATI Allvac® Vasco® M152 Specialty Steel, Heat Treatment: 691°C (1275°F) Anneal

Category : Metal , Ferrous Metal , Stainless Steel

Material Notes:

Data provided by Allvac.Applications: Rings and structural components for land-based turbines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Vasco-M152-Specialty-Steel-Heat-Treatment-691C-1275F-Anneal.php

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

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------------------------|-------------------------------|--|
| Hardness, Brinell | 326 | 326 | Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball |
| Hardness, Knoop | 354 | 354 | Estimated from Rockwell C value. |
| Hardness, Rockwell C | 35 | 35 | |
| Hardness, Vickers | 341 | 341 | Estimated from Rockwell C value. |
| Tensile Strength, Ultimate | 1104 MPa | 160100 psi | |
| Tensile Strength, Yield | 966 MPa @Strain 0.200 % | 140000 psi @Strain 0.200 % | |
| Elongation at Break | 20 % | 20 % | |
| Reduction of Area | 70 % | 70 % | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|---------|---------|------------|
| Carbon, C | 0.12 % | 0.12 % | |
| Chromium, Cr | 16.8 % | 16.8 % | |
| Iron, Fe | 78 % | 78 % | as balance |
| Manganese, Mn | 0.70 % | 0.70 % | |
| Molybdenum, Mo | 1.8 % | 1.8 % | |
| Nickel, Ni | 2.5 % | 2.5 % | |
| Nitrogen, N | 0.030 % | 0.030 % | |
| Phosphorous, P | 0.013 % | 0.013 % | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|---------|---------|----------|
| Sulfur, S | 0.013 % | 0.013 % | |
| Vanadium, V | 0.33 % | 0.33 % | |

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