

ATI Allvac® Vasco® X-2M Specialty Steel, Heat Treatment: 899°C (1650°F) Normalization

Category : Metal , Ferrous Metal

Material Notes:

Data provided by Allvac.Applications: High performance helicopter transmission gears, components.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-Vasco-X-2M-Specialty-Steel-Heat-Treatment-899C-1650F-Normalization.php

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

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------------------------|-------------------------------|--|
| Hardness, Brinell | 334 | 334 | Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball |
| Hardness, Knoop | 363 | 363 | Estimated from Rockwell C value. |
| Hardness, Rockwell C | 36 | 36 | |
| Hardness, Vickers | 349 | 349 | Estimated from Rockwell C value. |
| Tensile Strength, Ultimate | 1207 MPa | 175100 psi | |
| Tensile Strength, Yield | 1138 MPa @Strain 0.200 % | 165100 psi @Strain 0.200 % | |
| Elongation at Break | 16 % | 16 % | |
| Reduction of Area | 55 % | 55 % | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|------------|
| Carbon, C | 0.15 % | 0.15 % | |
| Chromium, Cr | 5.0 % | 5.0 % | |
| Iron, Fe | 92 % | 92 % | as balance |
| Manganese, Mn | 0.50 % | 0.50 % | |
| Molybdenum, Mo | 1.4 % | 1.4 % | |
| Silicon, Si | 0.90 % | 0.90 % | |
| Vanadium, V | 0.50 % | 0.50 % | |

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