

Latrobe Lescalloy® UT-18 VAC-ARC ; 3.75 in. round High Strength Alloy Steel

Category : Metal , Ferrous Metal , Alloy Steel , Low Alloy Steel , Carbon Steel , Medium Carbon Steel

Material Notes:

UT-18 VAC-ARC is a medium-carbon, low-alloy heat resistant steel having high strength to 1000°F. It is used primarily for turbine and compressor rotor shafts. Vacuum consumable electrode melting is employed to provide a preferred ingot solidification and superior microcleanliness. 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-Lescalloy-UT-18-VAC-ARC-375-in-round-High-Strength-Alloy-Steel.php

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------------------|--|----------|
| Tensile Strength, Ultimate | 1400 - 1410 MPa | 203000 - 204000 psi | |
| Tensile Strength, Yield | 1165 - 1172 MPa @Strain 0.200 % | 169000 - 170000 psi @Strain 0.200 % | |
| Elongation at Break | 16.5 - 17 % | 16.5 - 17 % | |
| Reduction of Area | 61.5 - 62 % | 61.5 - 62 % | |
| Izod Impact Notched | 38.0 - 39.3 J | 28.0 - 29.0 ft-lb | V-Notch |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Carbon, C | 0.40 % | 0.40 % | |
| Chromium, Cr | 3.25 % | 3.25 % | |
| Iron, Fe | 94.3 % | 94.3 % | |
| Manganese, Mn | 0.60 % | 0.60 % | |
| Molybdenum, Mo | 1.0 % | 1.0 % | |
| Silicon, Si | 0.25 % | 0.25 % | |
| Vanadium, V | 0.20 % | 0.20 % | |

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