

Latrobe Lescalloy® UT-18 VAC-ARC ; 2.125 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-2125-in-round-High-Strength-Alloy-Steel.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1400 - 1430 MPa	203000 - 208000 psi	
Tensile Strength, Yield	1172 - 1193 MPa @Strain 0.200 %	170000 - 173000 psi @Strain 0.200 %	
Elongation at Break	16 - 16.5 %	16 - 16.5 %	
Reduction of Area	60 - 61 %	60 - 61 %	
Izod Impact Notched	35.3 - 36.6 J	26.0 - 27.0 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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