

**Latrobe Lescalloy® UT-18 VAC-ARC ; 1.25 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-125-in-round-High-Strength-Alloy-Steel.php](http://www.lookpolymers.com/polymer_Latrobe-Lescalloy-UT-18-VAC-ARC-125-in-round-High-Strength-Alloy-Steel.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1390 - 1400 MPa	202000 - 203000 psi	
Tensile Strength, Yield	1158 MPa @Strain 0.200 %	168000 psi @Strain 0.200 %	
Elongation at Break	17 - 17.5 %	17 - 17.5 %	
Reduction of Area	63.5 - 64.5 %	63.5 - 64.5 %	
Izod Impact Notched	47.5 - 51.5 J	35.0 - 38.0 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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