

Latrobe Lescalloy® 4335+V VAC-ARC High Strength Alloy Steel

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

Material Notes:

4335+V VAC-ARC is a low alloy steel with good strength and high hardenability. In addition, uniform properties are obtained in large sections. The alloy can be heat treated to strength values within a wide range and becomes superior to other low alloy steels above the 200,000 psi strength level. Lescalloy 4335+V VAC-ARC steel is produced by the vacuum consumable electrode melting process to provide optimum cleanliness and preferred ingot structure. 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-4335V-VAC-ARC-High-Strength-Alloy-Steel.php

Physical Properties	Metric	English	Comments
Density	7.83 g/cc	0.283 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	56	56	1" from quench end; Jominy End Quench Hardenability
	56.5	56.5	1/2" from quenched end; Jominy End Quench Hardenability
	58	58	1/8" from quenched end; Jominy End Quench Hardenability
Tensile Strength, Ultimate	931 MPa	135000 psi	1200°F Temper
	1520 MPa	220000 psi	700°F Temper Temperature
	1760 MPa	255000 psi	460°F Temper Temperature
Tensile Strength, Yield	1378 MPa	199900 psi	700°F Temper Temperature
	@Strain 0.200 %	@Strain 0.200 %	
	1448 MPa	210000 psi	460°F Temper Temperature
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Break	8.0 %	8.0 %	460°F Temper
	9.0 %	9.0 %	700°F Temper Temperature
	16 %	16 %	1200°F Temper
Reduction of Area	30 %	30 %	460°F Temper Temperature
	35 %	35 %	700°F Temper Temperature

Thermal Properties	Metric	English	Comments
CTE, linear	11.34 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	6.300 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature -17.8 - 648 $\text{Å}^\circ\text{C}$	@Temperature -0.0400 - 1200 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	37.46 W/m-K	260.0 BTU-in/hr-ft Å^2 - $\text{Å}^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.35 %	0.35 %	
Chromium, Cr	0.80 %	0.80 %	
Iron, Fe	95.2 %	95.2 %	
Manganese, Mn	0.75 %	0.75 %	
Molybdenum, Mo	0.35 %	0.35 %	
Nickel, Ni	1.85 %	1.85 %	
Silicon, Si	0.50 %	0.50 %	
Vanadium, V	0.20 %	0.20 %	

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