

Latrobe Lescalloy® 300M VAC-ARC High Strength Alloy Steel

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

Material Notes:

LESCALLOY 300M VAC-ARC steel is a modified 4340 steel with added silicon allowing for use of a higher tempering temperature. The steel has high hardenability and strength with good ductility and toughness in heavy sections. It is used primarily in the 270/300 ksi (1862/2068) tensile strength range for aircraft landing gears, flap tracks and other structural applications. Vacuum arc remelting (VAR) is used 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-300M-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	57.5	57.5	1" from quench end; Jominy End Quench Hardenability
	58	58	1/2" from quenched end; Jominy End Quench Hardenability
	59	59	1/8" from quenched end; Jominy End Quench Hardenability
Tensile Strength, Ultimate	1970 - 1990 MPa	286000 - 288000 psi	302°C Temper Temperature
Tensile Strength, Yield	1655 - 1689 MPa	240000 - 245000 psi	302°C Temper Temperature
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Break	8.5 - 11 %	8.5 - 11 %	302°C Temper Temperature
Reduction of Area	31 - 39 %	31 - 39 %	302°C Temper Temperature

Thermal Properties	Metric	English	Comments
CTE, linear	11.34 Âµm/m-Â°C	6.300 Âµin/in-Â°F	
	@Temperature -17.8 - 93.0 Â°C	@Temperature -0.0400 - 199 Â°F	
Specific Heat Capacity	0.448 J/g-Â°C	0.107 BTU/lb-Â°F	
Thermal Conductivity	37.49 W/m-K	260.2 BTU-in/hr-ftÂ²-Â°F	

Component Elements Properties	Metric	English	Comments
Carbon, C			

Component Elements Properties	0.42 % Metric	0.42 % English	Comments
Chromium, Cr	0.80 %	0.80 %	
Iron, Fe	94.11 %	94.11 %	
Manganese, Mn	0.75 %	0.75 %	
Molybdenum, Mo	0.40 %	0.40 %	
Nickel, Ni	1.8 %	1.8 %	
Silicon, Si	1.65 %	1.65 %	
Vanadium, V	0.070 %	0.070 %	

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