

Latrobe Lescalloy® 4340 VAC-ARC ; 7.5" square High Strength Alloy Steel

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

Material Notes:

LESCALLOY 4340 VAC-ARC steel is a low alloy, nickel-chromium-molybdenum steel capable of being heat treated to high strength levels. The alloy has a good combination of ductility, toughness and strength along with high hardenability. Tempered At 260°C 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-4340-VAC-ARC-75-square-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	52 - 60	52 - 60	1/2" from quenched end
Tensile Strength, Ultimate	1830 MPa	265000 psi	260°C Temper Temperature
Tensile Strength, Yield	1530 MPa	222000 psi	260°C Temper Temperature
Elongation at Break	8.0 %	8.0 %	260°C Temper Temperature
Reduction of Area	25 %	25 %	260°C Temper Temperature

Thermal Properties	Metric	English	Comments
CTE, linear	11.3 µm/m-°C	6.28 µin/in-°F	
	@Temperature 18.0 - 93.0 °C	@Temperature 64.4 - 199 °F	
	14.6 µm/m-°C	8.11 µin/in-°F	
	@Temperature 18.0 - 648 °C	@Temperature 64.4 - 1200 °F	
Specific Heat Capacity	0.448 J/g-°C	0.107 BTU/lb-°F	
Thermal Conductivity	37.48 W/m-K	260.1 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.40 %	0.40 %	
Chromium, Cr	0.80 %	0.80 %	
Iron, Fe	95.7 %	95.7 %	

Manganese Mn Component Elements Properties	0.75 % Metric	0.75 % English	Comments
Molybdenum, Mo	0.25 %	0.25 %	
Nickel, Ni	1.8 %	1.8 %	
Silicon, Si	0.30 %	0.30 %	

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