

Latrobe Lescalloy® 4340 VAC-ARC ; 3.5" round 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 204°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-35-round-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	1/8" from quenched end
Tensile Strength, Ultimate	1900 MPa	276000 psi	204°C Temper Temperature
Tensile Strength, Yield	1530 MPa	222000 psi	204°C Temper Temperature
Elongation at Break	11 %	11 %	204°C Temper Temperature
Reduction of Area	35 %	35 %	204°C Temper Temperature

Thermal Properties	Metric	English	Comments
CTE, linear	11.3 Åµm/m-Å°C	6.28 Åµin/in-Å°F	
	@Temperature 18.0 - 93.0 Å°C	@Temperature 64.4 - 199 Å°F	
	14.6 Åµm/m-Å°C	8.11 Åµin/in-Å°F	
	@Temperature 18.0 - 648 Å°C	@Temperature 64.4 - 1200 Å°F	
Specific Heat Capacity	0.448 J/g-Å°C	0.107 BTU/lb-Å°F	
Thermal Conductivity	37.48 W/m-K	260.1 BTU-in/hr-ftÅ²-Å°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 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China