

## Latrobe Lescalloy® 4340 VAC-ARC ; 10.5" 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 593°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-105-square-High-Strength-Alloy-Steel.php](http://www.lookpolymers.com/polymer_Latrobe-Lescalloy-4340-VAC-ARC-105-square-High-Strength-Alloy-Steel.php)

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	48 - 58	48 - 58	1" from quenched end
Tensile Strength, Ultimate	1140 MPa	165000 psi	593°C Temper Temperature
Tensile Strength, Yield	1035 MPa	150100 psi	593°C Temper Temperature
Elongation at Break	18 %	18 %	593°C Temper Temperature
Reduction of Area	60 %	60 %	593°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.

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