

## Latrobe Lescalloy® 4330+V VAC-ARC High Strength Alloy Steel

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

### Material Notes:

LESCALLOY 4330+V VAC-ARC steel is a modification of 4330 steel with hardenability and other properties improved by the addition of vanadium. It is a low alloy steel capable of being heat treated to high strength levels. The alloy is primarily used in the 220 to 240 ksi (1517-1655 MPa) strength range. The comparatively low carbon content of the alloy makes it particularly useful in applications involving shock loading or stress concentration. LESCALLOY 4330+V VAC-ARC steel is produced by the vacuum consumable electrode melting process to provide optimum cleanliness and preferred ingot structure. Samples were austenitized at 1600°F for 1 hour and oil quenched. 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-4330V-VAC-ARC-High-Strength-Alloy-Steel.php](http://www.lookpolymers.com/polymer_Latrobe-Lescalloy-4330V-VAC-ARC-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	47	47	316°C Temper Temperature
	50	50	282°C Temper Temperature
Tensile Strength, Ultimate	1550 MPa	225000 psi	316°C Temper Temperature
	1620 MPa	235000 psi	282°C Temper Temperature
Tensile Strength, Yield	1331 MPa	193000 psi	316°C Temper Temperature
	1345 MPa	195100 psi	282°C Temper Temperature
Elongation at Break	11 %	11 %	282°C Temper Temperature
	11 %	11 %	316°C Temper Temperature
Reduction of Area	47 %	47 %	282°C Temper Temperature
	47 %	47 %	316°C Temper Temperature
Notched Tensile Strength	2048 MPa	297000 psi	K <sub>t</sub> ; 316°C Temper Temperature
	2083 MPa	302100 psi	K <sub>t</sub> ; 282°C Temper Temperature

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.669 J/g-°C	0.160 BTU/lb-°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.30 %	0.30 %	
Chromium, Cr	0.85 %	0.85 %	
Iron, Fe	95.43 %	95.43 %	
Manganese, Mn	0.85 %	0.85 %	
Molybdenum, Mo	0.40 %	0.40 %	
Nickel, Ni	1.8 %	1.8 %	
Silicon, Si	0.30 %	0.30 %	
Vanadium, V	0.070 %	0.070 %	

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