

## Latrobe Lescalloy® HP 9-4-30 VAC-ARC ; 5.75 in RCS Billet Size High Strength Alloy Steel

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

### Material Notes:

LESCALLOY HP 9-4-30 VAC-ARC steel is a low alloy, high strength steel with a high nickel and cobalt content to promote toughness. The alloy has been designed to have high hardenability, good weldability and excellent fracture toughness. It is typically used in the 220/240,000 psi (1517/1655 MPa) tensile strength range. Lescalloy HP 9-4-30 VAC-ARC steel is produced by the consumable electrode vacuum arc remelting process to provide optimum cleanliness and preferred ingot structure. Normalized at 927Â°C; Austenitized at 829Â°C for .5 hour 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-HP-9-4-30-VAC-ARC-575-in-RCS-Billet-Size-High-Strength-Alloy-Steel.php](http://www.lookpolymers.com/polymer_Latrobe-Lescalloy-HP-9-4-30-VAC-ARC-575-in-RCS-Billet-Size-High-Strength-Alloy-Steel.php)

Physical Properties	Metric	English	Comments
Density	7.75 g/cc	0.280 lb/inÂ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	51	51	1" from quench end; Jominy End Quench Hardenability
	51	51	1/2" from quenched end; Jominy End Quench Hardenability
	52	52	1/8" from quenched end; Jominy End Quench Hardenability
Tensile Strength, Ultimate	1590 - 1600 MPa	230000 - 232000 psi	
Tensile Strength, Yield	1310 - 1340 MPa	190000 - 194000 psi	
	@Strain 0.200 %	@Strain 0.200 %	
Elongation at Break	15 %	15 %	
Reduction of Area	51.7 - 52.5 %	51.7 - 52.5 %	
Fracture Toughness	143 MPa-mÂ½	130 ksi-inÂ½	
Charpy Impact	27.0 J	19.9 ft-lb	V-notch
	@Temperature -54.0 Â°C	@Temperature -65.2 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	11.3 Âµm/m-Â°C	6.28 Âµin/in-Â°F	
	@Temperature 20.0 - 427 Â°C	@Temperature 68.0 - 801 Â°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.30 %	0.30 %	
Chromium, Cr	1.0 %	1.0 %	
Cobalt, Co	4.5 %	4.5 %	
Iron, Fe	85.2 %	85.2 %	
Manganese, Mn	0.30 %	0.30 %	
Molybdenum, Mo	1.0 %	1.0 %	
Nickel, Ni	7.5 %	7.5 %	
Silicon, Si	0.10 %	0.10 %	
Vanadium, V	0.10 %	0.10 %	

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