

Latrobe Lescalloy® 16NCD13 VAC-ARC High Strength Alloy Steel

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

Material Notes:

16NCD13 VAC-ARC is a premium quality low alloy, carburizing casehardenable vacuum arc remelted steel which takes its name from the French industry designation. In the carburized condition, its high case hardness is combined with desirable impact and fracture toughness characteristic in the core. Additionally, superior cleanliness makes Lescalloy 16NCD13 VAC-ARC steel ideally suited for critical aerospace gear and actuator applications. 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-16NCD13-VAC-ARC-High-Strength-Alloy-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	33.5	33.5	1" from quench end; Jominy End Quench Hardenability
	40	40	1/2" from quenched end; Jominy End Quench Hardenability
	41.5	41.5	1/8" from quenched end; Jominy End Quench Hardenability
Tensile Strength, Ultimate	827 MPa	120000 psi	621Â°C Temper Temperature
	1100 MPa	160000 psi	496Â°C Temper Temperature
	1380 MPa	200000 psi	177Â°C Temper Temperature
Tensile Strength, Yield	931 MPa	135000 psi	621Â°C Temper Temperature
	1103 MPa	160000 psi	177Â°C Temper Temperature
	931 MPa @Strain 0.200 %	135000 psi @Strain 0.200 %	496Â°C Temper Temperature
Elongation at Break	13 %	13 %	in 5D; 177Â°C Temper Temperature
	16 %	16 %	in 5D; 496Â°C Temper Temperature
	23 %	23 %	in 5D; 621Â°C Temper Temperature
Charpy Impact	33.9 J	25.0 ft-lb	496Â°C Temper Temperature
	94.9 J	70.0 ft-lb	621Â°C Temper Temperature

Component Elements Properties	Metric	English	Comments
Carbon, C	0.15 %	0.15 %	
Chromium, Cr	1.0 %	1.0 %	

Component Elements Properties	Metric	English	Comments
Manganese, Mn	0.50 %	0.50 %	
Molybdenum, Mo	0.25 %	0.25 %	
Nickel, Ni	3.25 %	3.25 %	
Silicon, Si	0.25 %	0.25 %	

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