

Latrobe Nitralloy® 135 Modified VAC-ARC, 3 to 5 in Premium Nitriding Steel

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

Material Notes:

NITRALLOY 135 MODIFIED VAC-ARC steel is a low alloy nitriding grade with moderate hardenability. It has been designed to provide a high case hardness and to maintain its core strength during the nitriding cycle. VAC-ARC remelting is employed to provide preferred ingot solidification and superior microcleanliness. Nitralloy 135 Modified Vac-Arc steel is also produced by vacuum induction melting followed by vacuum arc remelting (VIM-VAR). Mechanical Properties are Hardened at 1725°F and quench, tempered at 1200°F and air cool. 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-Nitralloy-135-Modified-VAC-ARC-3-to-5-in-Premium-Nitriding-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	269 - 321	269 - 321	On Surface
Tensile Strength, Ultimate	758 MPa	110000 psi	
Tensile Strength, Yield	580 MPa	84100 psi	
Elongation at Break	15 %	15 %	
Reduction of Area	40 %	40 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	1.2 %	1.2 %	
Carbon, C	0.40 %	0.40 %	
Chromium, Cr	1.6 %	1.6 %	
Iron, Fe	95.55 %	95.55 %	
Manganese, Mn	0.60 %	0.60 %	
Molybdenum, Mo	0.35 %	0.35 %	
Silicon, Si	0.30 %	0.30 %	

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