

Wingate Alloys Winco-Tuf 40IT Ultra High Strength, Thru-Hardened Alloy Wear Plate

Category : Metal , Ferrous Metal , Alloy Steel

Material Notes:

For extreme abrasion and moderate impact. Winco-Tuf 40 has excellent toughness at high hardness and in heavy sections. For severe impact and abrasions. Advantages: Maximum resistance to abrasion and impact. Added nickel provides improved toughness and improved corrosion-resistance. Withstands the brittleness which develops at subnormal temperatures. Increased toughness and fatigue resistance. Retains high strength and wearability at high temperatures. High impact and wear properties retained at weld joints. Information from Wingate Alloys Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wingate-Alloys-Winco-Tuf-40IT-Ultra-High-Strength-Thru-Hardened-Alloy-Wear-Plate.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	420 - 455	420 - 455	
Hardness, Rockwell C	40 - 48	40 - 48	
Tensile Strength	1590 MPa	230000 psi	
Tensile Strength, Yield	1320 MPa	191500 psi	
Elongation at Break	17.4 %	17.4 %	2[in]
Reduction of Area	55 %	55 %	
Charpy Impact	40.7 J	30.0 ft-lb	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.20 - 0.28 %	0.20 - 0.28 %	
Chromium, Cr	1.1 - 1.75 %	1.1 - 1.75 %	
Copper, Cu	0.15 - 0.30 %	0.15 - 0.30 %	
Iron, Fe	95.27 - 97 %	95.27 - 97 %	
Manganese, Mn	0.80 - 1.0 %	0.80 - 1.0 %	
Molybdenum, Mo	0.15 - 0.35 %	0.15 - 0.35 %	
Nickel, Ni	0.40 - 0.70 %	0.40 - 0.70 %	
Phosphorous, P	<= 0.025 %	<= 0.025 %	
Silicon, Si	0.20 - 0.30 %	0.20 - 0.30 %	
Sulfur, S	<= 0.025 %	<= 0.025 %	

Component Elements Properties	Metric	English	Comments
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