

Wingate Alloys Winco-Tuf 40 High Strength Wear Plate

Category : Metal , Ferrous Metal , Alloy Steel

Material Notes:

Quenched and tempered for extreme abrasion and moderate impact. Winco-Tuf 40 has excellent toughness at high hardness and in heavy sections. For severe abrasions. Advantages: Maximum resistance to abrasion and impact. Withstands the brittleness which develops at subnormal temperatures. Increased toughness and fatigue resistance compared to low carbon and 1045 plate. 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-40-High-Strength-Wear-Plate.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	375 - 440	375 - 440	
Hardness, Rockwell C	40 - 46	40 - 46	
Tensile Strength	1380 MPa	200000 psi	
Tensile Strength, Yield	1100 MPa	160000 psi	
Elongation at Break	14.4 %	14.4 %	2[in]
Reduction of Area	55 %	55 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.17 - 0.25 %	0.17 - 0.25 %	
Chromium, Cr	0.45 - 0.60 %	0.45 - 0.60 %	
Copper, Cu	0.15 - 0.30 %	0.15 - 0.30 %	
Iron, Fe	95.21 - 96.33 %	95.21 - 96.33 %	
Manganese, Mn	1.5 %	1.5 %	
Molybdenum, Mo	0.20 - 0.60 %	0.20 - 0.60 %	
Nickel, Ni	0.70 - 1.0 %	0.70 - 1.0 %	
Phosphorous, P	<= 0.025 %	<= 0.025 %	
Silicon, Si	0.50 %	0.50 %	
Sulfur, S	<= 0.015 %	<= 0.015 %	

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