

## Wingate Alloys Winco-Tuf 50 Ultra High Strength Alloy Wear Plate

Category : Metal , Ferrous Metal , Alloy Steel

**Material Notes:**

Winco-Tuf 50 quenched and tempered, high alloy steel is intended specifically for applications requiring a high degree of abrasion and wear resistance. Used by industries such as mining, forestry, quarrying, and construction. Winco-Tuf 50 is the cost-effective choice for parts subjected to extremely high levels of wear. Information from Wingate Alloys Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Wingate-Alloys-Winco-Tuf-50-Ultra-High-Strength-Alloy-Wear-Plate.php](http://www.lookpolymers.com/polymer_Wingate-Alloys-Winco-Tuf-50-Ultra-High-Strength-Alloy-Wear-Plate.php)

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	455 - 525	455 - 525	
Hardness, Rockwell C	48 - 53	48 - 53	
Tensile Strength	1450 MPa	210000 psi	
Tensile Strength, Yield	1240 MPa	180000 psi	
Elongation at Break	12 %	12 %	2[in]

Component Elements Properties	Metric	English	Comments
Boron, B	0.0030 %	0.0030 %	
Carbon, C	0.31 %	0.31 %	
Chromium, Cr	1.0 %	1.0 %	
Iron, Fe	95.547 %	95.547 %	
Manganese, Mn	1.5 %	1.5 %	
Molybdenum, Mo	0.35 %	0.35 %	
Nickel, Ni	0.70 %	0.70 %	
Phosphorous, P	0.025 %	0.025 %	
Silicon, Si	0.55 %	0.55 %	
Sulfur, S	0.015 %	0.015 %	

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