

## BISALLOY® WEAR 500 XT

### Introduction

BISALLOY® WEAR 500 XT is a new 500 HB grade product with improved impact toughness developed recently at Bisalloy. It has excellent abrasion-resistance with guaranteed impact toughness, very good weldability and formability.

### Applications

Being through hardened with a nominal hardness of 500 HB, BISALLOY® WEAR 500 XT has been developed for highly demanding applications and can offer an increased life expectancy in sliding and gouging abrasion situations. BISALLOY® WEAR 500 XT is best suited to applications such as:

- Dump Truck Liners/  
Bodies
- Mining Buckets
- Cutting Edges
- Wear Liners
- Chutes
- Earthmoving Equipment
- Underground miners

### Mechanical properties

Properties		Specification	Typical
Yield Strength		-	1300 MPa
Tensile Strength		-	1550 MPa
Charpy Impact (Transverse) (10 mm x 10 mm)	8 - 25 mm	27 J @ -20°C	-
Hardness 8 - 25 mm		470 - 520 HB	500HB
Bend radii Bend to 90 degrees		<16mm thick	4.0t (L), 5.0t (T)
		16-25mm thick	4.5t (L), 5.5t (T)

### Chemical composition

Thickness (mm)	Weight %	C	P	Mn	Si	S	Ni	Cr	Mo	B	CE(IIW)*
8 - 25	Max	0.28	0.020	0.60	0.6	0.008	0.8	1.0	0.35	0.005	0.54

\* Typical average

### Tolerances and Fabrication

**Dimensional and flatness tolerance** refer to Manufacturing Tolerances on Bisalloy Website.

**Preheating for thermal cutting and welding:** Not required for thickness <12mm. 75 °C for thickness 12 - 25mm.

**Machining**, including drilling, milling and tapping refer to Wear 500 in Technical & Fabrication on Bisalloy Website

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