Data Sheet

WEAR RESISTANT PLATE W500

SPECIFICATION

- Bisalloy - BIS 500
- JFE– EH500
- SSAB - HARDOX 500
- Sumitomo - Sumihard 500
- Ford Steel - Wearalloy 500

PRODUCT DESCRIPTION

- A through hardened, abrasion resistant steel plate, offering long life expectancy in sliding and gouging abrasion applications.

SPECIAL NOTE

- Not suitable for use in structural applications or where high impact forces are likely to occur.

SUPPLY CONDITIONS

- Thickness Range 8mm - 100mm

TYPICAL USES

- Dump truck wear liners
- Chutes
- Wear liners
- Cutting edges
- Earthmoving buckets
- Ground engaging tools

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LaserTek PROFILES LTD

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CHEMICAL COMPOSITION		
Element	Maximum-	Typical %/ Thickness (mm)
		8mm—100mm
Carbon	0.35	0.32
Silicon	0.55	0.35
Manganese	1.60	1.50
Phosphorus	0.030	0.025
Sulphur	0.030	0.008
Chromium	0.80	0.60
Titanium	0.020	0.010
Boron	0.004	0.002
CEQ (IIW)	-	0.62

MECHANICAL PROPERTIES		
Typical Properties (Transverse)		Thickness Range (mm)
		8mm—100mm
Guaranteed Min.	Yield Strength (MPa)	Not guaranteed
	Tensile Strength (MPa)	Not guaranteed
Typical	Yield Strength (MPa)	1400
	Tensile Strength (MPa)	1640
	Elong. On 5.65 / So (%)	10

HARDNESS	
Specification	477-534HB
Typical	500HB

FABRICATION

Wear Resistant Plate W500 is a medium carbon, high hardness, abrasion resistant steel. With appropriate attention to heat input, preheat and consumable selections, Wear Resistant Plate W500 can be successfully welded to itself and a range of other steels by conventional techniques.

Because of its high hardness, cold forming of Wear Resistant Plate W500 is extra difficult, requiring higher bending and forming forces, and greater allowances must be made for spring back.

If heating is necessary, this should not exceed 200c otherwise mechanical properties might be affected.

For further details on fabrication please contact LaserTek office.

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