PRODUCT **DATA SHEET**

Bisalloy WEAR

BISALLOY® WEAR 500 PLUS

Introduction

BISALLOY® WEAR 500 PLUS is a new product with improved impact toughness and is through hardened. It has very high abrasion-resistance with guaranteed impact toughness at low temperature and is still readily weldable and formable for a range of applications.

Applications

Being through hardened with a nominal hardness of 500 HBW, BISALLOY® Wear 500 PLUS has been developed for highly demanding applications and can offer an increased life expectancy in sliding and gouging abrasion situations.

BISALLOY® Wear 500 PLUS is best suited to applications such as:

- Dump Truck High Impact Zones
- Ground Engaging Tools
- Cutting Edges
- Wear Liners
- Chutes
- Rock Buckets
- Crushers

Mechanical properties

Properties		Specification	Typical*
0.2% Proof Stress		–	1300 MPa
Tensile Strength		–	1640 MPa
Elongation in 50 mm G.L.		-	10%
Charpy Impact (Longitudinal) -40°C (10 mm x 10 mm)		20 J	-
Hardness	8 - 40 mm	470 - 530 HB	500 HB
	50 - 100 mm**	450 - 530 HB**	

* Typical values are provided for reference information only and no guarantee is given that a specific plate will provide these properties.

**Minimum core hardness is 90% of the guaranteed minimum surface hardness

Chemical Composition

Thickness (mm)	Weight %	C	P	Mn	Si	S	Ni	Cr	Mo	B	CE(IIW)*
8 - 40	Maximum	0.32	0.025	0.40	0.50	0.008	2.00	1.20	0.30	0.002	0.60
50 - 100	Maximum	0.32	0.025	1.50	0.50	0.008	2.00	1.50	0.50	0.002	0.77

*Typical Average

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