

## 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
- Rock Buckets and Crushers
- Cutting Edges
- Rock Buckets
- Wear Liners
- Chutes

### Mechanical properties

Properties	Specification	Typical
Yield Strength	-	1350 MPa
Tensile Strength	-	1640 MPa
Charpy Impact (Longitudinal) -40°C (10 mm x 10 mm)	20 J	-
Hardness 8 - 40	477 - 530 HB	500 HB
Hardness 50 - 100*	450 - 530 HB	

\*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	Max	0.32	0.025	0.40	0.35	0.008	2.00	1.20	0.30	0.002	0.63
50 - 100	Max	0.32	0.025	1.50	0.35	0.008	2.00	1.50	0.50	0.002	0.77

\*Typical average

Disclaimer: Whilst every effort has been made and all reasonable care taken to ensure the accuracy of the information contained in this publication, this information should not be used or relied upon for any specific application without investigation and verification as to its accuracy, suitability and applicability by a competent professional person in this regard.

Bisalloy cannot accept any responsibility for any loss, damage or consequence resulting from the use of this publication. Images included in this publication are for illustrative purposes only. Images are indicative only of the type of applications which may use a Bisalloy product.

