# PRODUCT **DATA SHEET**



## **BISALLOY® WEAR 500 STEEL**

#### Introduction

One of the original grades manufactured by Bisalloy Steels, BISALLOY® WEAR 500 steel has been continually manufactured in Australia for over 40 years and is a very high-hardness and abrasion-resistant steel plate that is still readily weldable and usable for a range of applications.

### **Applications**

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

BISALLOY® WEAR 500 steel is best suited to applications such as:

- Dump Truck Wear Liner 'Dove Tails'
- Ground Engaging Tools
- Bucket Lips and Edges
- Cutting Edges
- Rock Buckets
- Wear Liners
- Chutes

#### Mechanical properties

Prope	erties	Specification	Typical		
0.2% Pro	of Stress	-	1400 MPa		
Tensile S	Strength	-	1640 MPa		
Elongation in	50 mm G.L.	-	10%		
Charpy Impact (Longitudinal) -40°C (10 mm x 10 mm)		-	25 J		
Handana	8 - 40 mm	470 - 530 HB	500 HB		
Hardness	>40 - 100 mm	450 - 530 HB	500 HB		

#### Chemical composition

Thickness (mm)	Weight %	С	Р	Mn	Si	S	Ni	Cr	Мо	В	CE(IIW)*	CET*
8 - 100	Max	0.32	0.025	1.00	0.35	0.008	0.35	1.20	0.30	0.002	0.62	0.40

<sup>\*</sup>Typical average

PLEASE NOTE: Every care has been taken to ensure the accuracy of information contained in this manual which supersedes earlier publications, however Bisalloy Steels shall not be liable for any loss or damage whatsoever caused from the application of such information. Typical values are provided for reference information only and no guarantee is given that a specific plate will provide these properties. Information is subject to change without notice. **Published July 2021** 



