

BISALLOY® WEAR 400 STEEL

Introduction

BISALLOY® WEAR 400 steel is a highly versatile, through hardened, abrasion-resistant steel plate with the ability to withstand high impact and medium level abrasion applications. Bisalloy Steels has been producing BISALLOY® WEAR 400 steel for over 40 years in Australia and it has become the product synonymous with many applications across a range of market segments.

Applications

BISALLOY® WEAR 400 steel is ideal for wear and abrasion resistance applications with some impacts. As a nominally 400 HBW hardness steel, BISALLOY® WEAR 400 steel applications include:

- Dump Truck Wear Liners
- Screw Conveyors
- Chutes
- Storage Bins
- Earthmoving Buckets
- Cyclones
- Deflector Plates
- Ground Engaging Tools
- Cutting Edges

Mechanical properties

Properties	Specification	Typical
0.2% Proof Stress	-	1070 MPa
Tensile Strength	-	1320 MPa
Elongation in 50 mm G.L.	-	14%
Charpy Impact (Longitudinal) -40°C (10 mm x 10 mm)	-	35 J
Hardness	370 - 430 HB	400 HB

Chemical composition

Thickness (mm)	Weight %	C	P	Mn	Si	S	Cr	Mo	B	CE(IIW)*	CET*
5 - <30	Maximum	0.18	0.025	1.2	0.60	0.008	1.00	0.25	0.002	0.44	0.26
≥30 - 80	Maximum	0.18	0.025	1.3	0.60	0.008	1.00	0.25	0.002	0.54	0.32
>80 - 100	Maximum	0.18	0.025	1.5	0.60	0.008	1.20	0.25	0.002	0.58	0.34

*Typical average

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