

BISPLATE® 500

BISPLATE® 500 is a through hardened, abrasion resistant steel plate, offering long life expectancy in sliding and gouging abrasion applications.

APPLICATIONS

BISPLATE® 500 is the hardest steel produced by Bisalloy Steels and offers exceptionally long life in sliding abrasion applications such as:

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

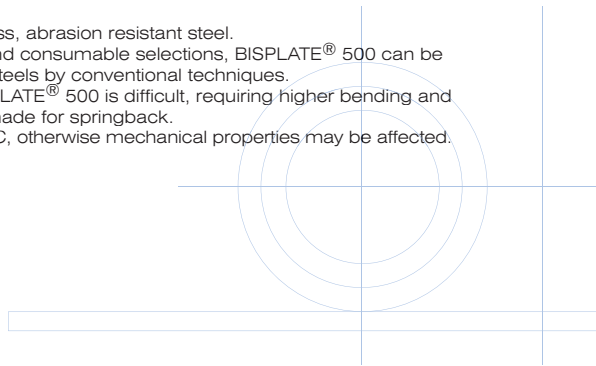
FABRICATION

BISPLATE® 500 is a medium carbon, high hardness, abrasion resistant steel.

With appropriate attention to heat input, preheat and consumable selections, BISPLATE® 500 can be successfully welded to itself and a range of other steels by conventional techniques.

Because of its high hardness, cold forming of BISPLATE® 500 is difficult, requiring higher bending and forming forces, and greater allowances must be made for springback.

If heating is necessary, this should not exceed 200°C, otherwise mechanical properties may be affected.



MECHANICAL PROPERTIES

PROPERTIES	SPECIFICATION	TYPICAL
0.2% Proof Stress	-	1400 MPa
Tensile Strength	-	1640 MPa
Elongation in 50mm G.L.	-	10%
Charpy Impact (Longitudinal) +20°C (10mm X 10mm)	-	35J
Hardness	477 – 534HB	500HB

CHEMICAL COMPOSITION

THICKNESS (mm)		C	P	Mn	Si	S	Ni	Cr	Mo	B	CE(IIW)*	PCM*
8-100	Maximum	0.32	0.025	0.40	0.35	0.005	0.35	1.20	0.30	0.002	0.62	0.40

*Typical