

BISPLATE® 450

BISPLATE® 450 is a through hardened, abrasion resistant steel plate, offering long life expectancy in sliding and gouging abrasion applications, with impact loading.

APPLICATIONS

BISPLATE® 450 offers exceptionally long life in high abrasion applications with impact loading.

Applications include:

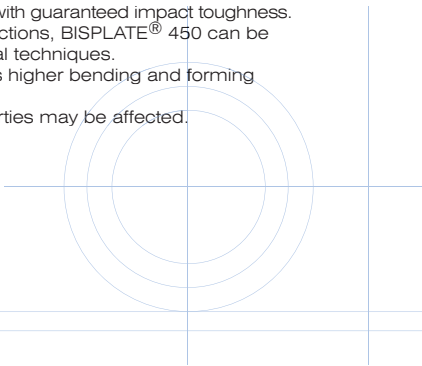
- Dump truck wear liners/bodies
- Chutes
- Wear liners
- Mining buckets
- Cutting edges

FABRICATION

BISPLATE® 450 is a low carbon, high hardness, abrasion resistant steel with guaranteed impact toughness. With appropriate attention to heat input, preheat and consumable selections, BISPLATE® 450 can be successfully welded to itself and a range of other steels by conventional techniques.

Because of its high hardness, cold forming of BISPLATE® 450 requires higher bending and forming forces, and greater allowances must be made for springback.

Heating above 200°C should be avoided, otherwise mechanical properties may be affected.



MECHANICAL PROPERTIES

PROPERTIES	SPECIFICATION	TYPICAL
0.2% Proof Stress	-	1150 MPa
Tensile Strength	-	1400 MPa
Elongation in 50mm G.L.	-	12%
Hardness	425 – 475HB	450HB

GUARANTEED CHARPY-V IMPACT TOUGHNESS

THICKNESS (mm)	TEST PIECE	MIN ENERGY, LONGITUDINAL -40°C
8	10 X 5	17J
10	10 X 7.5	21J
12-20	10 X 10	25J

CHEMICAL COMPOSITION

THICKNESS (mm)		C	P	Mn	Si	S	Ni	Cr	Mo	B	CE(IIW)*	PCM*
8-20	Maximum	0.23	0.025	0.40	0.60	0.005	0.20	0.90	0.15	0.002	0.45	0.30

*Typical