

BISPLATE® 400

BISPLATE® 400 is a through hardened, abrasion resistant steel plate, offering long life expectancy in high impact abrasion applications.

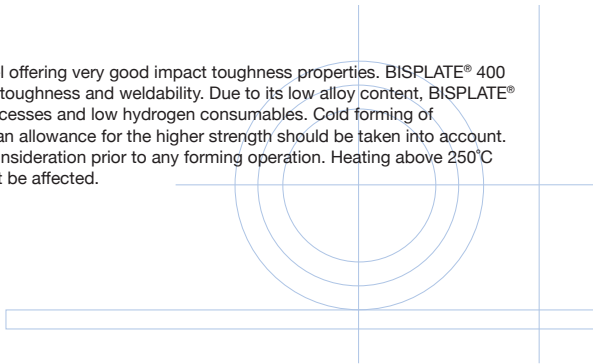
APPLICATIONS

BISPLATE® 400 offers excellent wear and abrasion resistance and impact toughness in applications that include:

- Dump truck wear liners
- Cyclones
- Screw conveyors
- Deflector plates
- Chutes
- Ground engaging tools
- Storage bins
- Cutting edges
- Earthmoving buckets

FABRICATION

BISPLATE® 400 is a high hardness, abrasion resistant steel offering very good impact toughness properties. BISPLATE® 400 provides an optimum combination of abrasion resistance, toughness and weldability. Due to its low alloy content, BISPLATE® 400 can be readily welded using conventional welding processes and low hydrogen consumables. Cold forming of BISPLATE® 400 is achievable on all thicknesses although an allowance for the higher strength should be taken into account. Bending machine capabilities should also be taken into consideration prior to any forming operation. Heating above 250°C should be avoided, otherwise mechanical properties might be affected.



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MECHANICAL PROPERTIES

PROPERTIES	SPECIFICATION	TYPICAL
0.2% Proof Stress	-	1070 MPa
Tensile Strength	-	1320 MPa
Elongation in 50mm G.L.	-	14%
Charpy Impact (Longitudinal) +20°C (10mm x10mm)	-	55J
Hardness	370 - 430HB	400HB

CHEMICAL COMPOSITION

THICKNESS (mm)		C	P	Mn	Si	S	Cr	Mo	B	CE(IIW)*	CET*
5 - <16	Maximum	0.18	0.025	1.5	0.25	0.008	0.25	0.25	0.002	0.40	0.29
≥16 - 80	Maximum	0.20	0.025	1.5	0.25	0.008	0.30	0.25	0.002	0.50	0.35
>80 - 100	Maximum	0.18	0.025	1.5	0.25	0.008	1.20	0.25	0.002	0.58	0.34

*Typical Average