

BISPLATE® 320

BISPLATE® 320 is a through hardened, abrasion resistant steel plate, offering long life expectancy in high impact abrasion applications.

APPLICATIONS

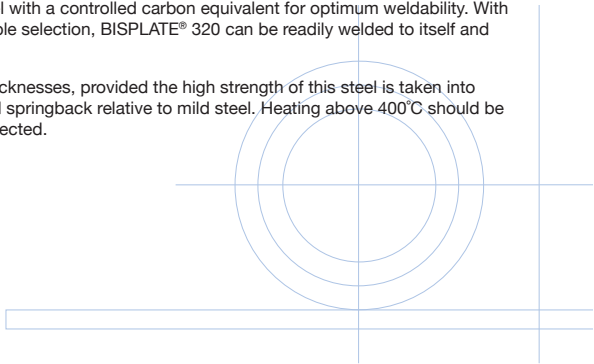
BISPLATE® 320 offers the optimum combination of hardness, impact and formability for wear applications that require extensive forming/drilling or fabrication, in impact abrasive applications such as:

- Deflector plates
- Chutes
- Storage bins
- Dump truck liners
- Earthmoving buckets

FABRICATION

BISPLATE® 320 is a high hardness, abrasion resistant steel with a controlled carbon equivalent for optimum weldability. With appropriate attention to heat input, preheat and consumable selection, BISPLATE® 320 can be readily welded to itself and other steels, using conventional processes.

Cold forming of BISPLATE® 320 plates is possible in all thicknesses, provided the high strength of this steel is taken into account. Adequate allowance must be made for increased springback relative to mild steel. Heating above 400°C should be avoided, otherwise the mechanical properties might be affected.



BISPLATE® 320

MECHANICAL PROPERTIES

PROPERTIES	SPECIFICATION	TYPICAL
0.2% Proof Stress	–	970 MPa
Tensile Strength	–	1070 MPa
Elongation in 50mm G.L.	–	18%
Charpy Impact (Longitudinal) +20°C (10mm x10mm)	–	60J
Hardness	320 - 360HB	340HB

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