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BISPLATE 80PV

BISPLATE 80PV – a high strength steel alternative for designers of unfired pressure vessels that meets the requirements of AS1210 and achieves a light weight structure. BISPLATE 80PV has been approved by statutory authorities and complies with the requirements of AS1210 for pressure vessel applications and is supplied ultrasonically tested to AS1710-Level 1. The high strength offers substantial weight reductions in the following areas:

Applications

- Transport Road Tankers
- Storage Tanks (spherical and cylindrical)
- Railroad Tankers (LPG / Liquid Ammonia)
- Refinery and Petro Chemical Equipment (tube plates / channel covers)

	Thickness		C	P	Mn	Si	S	Cr	Mo	B	CE (IIW)	PCM
Chemical Composition **	6-<16	Typical	0.16	0.010	1.10	0.20	0.003	-	0.20	0.0010	0.40	0.25
	≥16-80	Typical	0.18	0.010	1.40	0.20	0.003	0.20	0.20	0.0010	0.50	0.29
	>80-100	Typical	0.16	0.010	1.15	0.20	0.003	0.90	0.20	0.0010	0.58	0.30

Mechanical Properties	0.2% Proof Stress		Tensile Strength		Elongation in 50 mm GL	
	Specification Typical	690 MPa (min) * 750 MPa	790 – 930 MPa* 830 MPa	18% (min) * 26%		

Charpy Impact Properties	Lateral Expansion, 0°C (max)		Charpy Impact Energy, -20°C, transverse	
	Specification Typical	0.38 mm (min) 0.70 mm	55 J	

Hardness	Typical	255HB
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Testing BISPLATE 80PV is manufactured in accordance with AS/NZS 3597 Grade 700PV. All testing is NATA approved.

Reference Specifications Welding according to AS/NZS 1554 parts 4 and 5, WTIA Technical Note 15.

Equivalent Specifications	BISPLATE 80PV is equivalent to	<ul style="list-style-type: none"> • ASTM A517 • EN 10028-6 Grade P690Q
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Manufacturing Tolerances In accordance with AS/NZS 1365.
Tighter tolerances may be available on negotiation.

Surface Finish Shotblasted

Plate Colour Code Pink with red stripe

Fabrication For advice on fabrication refer to relevant Bisalloy technical brochures. Contact Bisalloy direct or visit www.bisalloy.com.au.

* Dependent on plate thickness
** Alternate Chemistry may be specified when necessary