

PRODUCT DATA SHEET TSA80 WELD OVERLAY

TSA80 is a high-quality abrasion resistant clad plate manufactured by multi pass open arc welding of a complex Chromium Carbide Alloy onto a mild steel substrate. TSA80 has improved impact properties and displays superior wear resistance over conventional low alloy overlays due to its ability to resist deformation from impact. The overlay alloy has a minimum of 30% chromium carbides by volume evenly dispersed in a eutectic matrix of retained austenite.

TSA80 overlay plate is distinguished by a wide and smooth weld bead with a clearly defined well-developed pattern of stress cracking. Liners manufactured from TSA80 have proven performance in the cement, mining and mineral processing industries consistently demonstrating superior wear resistance in moderate impact situations.

Specification to AS/NZS 2576: Grade 2455

	Typical Hardness							
Carbon	Silicon	Manganese	Chromium	Niobium	Tungsten	Vanadium	Carbides	Matrix
3.5 – 4.5%	0.5 – 1.2%	0.6 – 2.0%	20 – 27%	*	*	*	1500HV	650HV

- (*) Denotes combination of alloying elements Niobium, Tungsten, Vanadium, Titanium & Molybdenum.
 - > Proven consistent fusion between the overlay and mild steel substrate
 - > Can be formed using rollers or hydraulic press to achieve a desired radius
 - Relatively smooth surface
 - Pressed during manufacture to ensure flatness of the stock plate
 - > Consistent hardness and thickness throughout the stock plate
 - Excellent abrasion resistance
 - Increased impact properties

Total Steel of Australia Pty Ltd A.B.N. 34 001 201 850

Admin Suite 12, 35-37 Railway Pde Engadine NSW 2233 PO Box 70 Engadine NSW 2233 Tel. No. (02) 8508 4800 Fax: (02) 9520 8628 admin@totalsteel.com.au Sydney
46 Anzac Avenue
Smeaton Grange NSW 2567
Box 3205
Narellan DC NSW 2567
Tel. No. (02) 4648 8111
Fax: (02) 4647 8011
sydney@totalsteel.com.au

Melbourne 207-211 Fitzgerald Road Laverton North VIC 3026 PO Box 477 Laverton VIC 3026 Tel. No. (03) 9369 8855 Fax: (03) 9369 8866

melbourne@totalsteel.com.au

Brisbane 106 Mica Street Carole Park QLD 4300 PO Box 265 Carole Park QLD 4300 Tel. No. (07) 3723 9200 Fax: (07) 3271 1699 brisbane@totalsteel.com.au

Perth 53-75 McDowell Street Welshpool WA 6106 PO Box 626 Welshpool WA 6986 Tol No. (08) 9351 6800

Welshpool WA 6986 Tel. No. (08) 9351 6800 Fax: (08) 9351 6868 perth@totalsteel.com.au Darwin 48 Dawson Street East Arm., N.T. 0822 PO Box 38153 Winnellie NT 0821 Tel. No. (08) 8984 4324 Fax No. (08) 8947 4615

darwin@totalsteel.com..au



Product Application

TSA80 overlay plate is a proven performer in industries such as Mining, Cement, Sugar, power generation, glass manufacture and Mineral Processing.

- Weld on skins for truck trays, excavators, loaders and dozers
- Studded Liners for chute, bin & hopper walls
- Studded Skirt Liners for conveyor systems
- Crusher wall liners

Services Available

Total Steel has a fully equipped workshop and can supply liners in any shape plasma cut to size. In addition to our cutting service Total steel can offer liners with welded on studs.

Size Range

		STOCK P	LATE DIMENSION						
Total Steel	Length	Width	Overlay	Substrate	Weight	Charlend			
Part No	MM	MM	MM	MM	KGS	Stocked			
TSA800606300220	3000	2200	6	6	622	Yes			
TSA800910300220	3000	2200	9	10	982	Yes			
TSA801712300220	3000	2200	17	12	1503	Yes			
TSA802510300220	3000	2200	25	10	2310	Yes			
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