



PRODUCT DATA SHEET

TSA60 WELD OVERLAY

TSA60 is a high-quality abrasion resistant clad plate manufactured by multi pass open arc welding of a Chromium Carbide Alloy onto a mild steel substrate. The overlay alloy has a minimum of 30% chromium carbides by volume evenly dispersed in a eutectic matrix of retained austenite.

TSA60 overlay plate is distinguished by a wide and smooth weld bead with a clearly defined well-developed pattern of stress cracking. Liners manufactured from TSA60 have proven performance in the cement, mining and mineral processing industries consistently demonstrating superior wear resistance in low impact situations.

Specification to AS/NZS 2576 : Grade 2360

Typical Chemical Composition							Typical Hardness	
Carbon	Silicon	Manganese	Chromium	Niobium	Tungsten	Vanadium	Carbides	Matrix
4.5 – 5.5%	0.5 – 1.2%	0.6 – 2.0%	27 – 30%	-	-	-	1500HV	750HV

- 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
- Superior abrasion resistance

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
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

TSA60 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

Total Steel Part No	STOCK PLATE DIMENSIONS				Weight KGS	Stocked
	Length	Width	Overlay	Substrate		
	MM	MM	MM	MM		
TSA600406300220	3000	2200	4	6	517	Yes
TSA600606300220	3000	2200	6	6	622	Yes
TSA600508300220	3000	2200	5	8	672	Yes
TSA600808300220	3000	2200	8	8	829	Yes
TSA600910300220	3000	2200	9	10	982	Yes
TSA601212300220	3000	2200	12	12	1245	Yes
TSA601712300220	3000	2200	17	12	1503	Yes
TSA602510300220	3000	2200	25	10	2310	Yes
TSA602012300220	3000	2200	20	12	1658	Yes

TSA PLATE - CUSTOM CONTACT YOUR LOCAL REPRESENTATIVE

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
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