

CRC 60 Chrome Carbide Plate - Super Abrasive Resistant



Brown McFarlane provides specialist steel solutions to suit your needs by offering you a range of Super abrasive resistant CRC 60 Chrome Carbide Plate.

CRC 60 plate is a mild steel base plate that has been overlaid with a layer of chromium carbide weld. This is done by an electric arc bulk welding process. The clad area of Chromium Carbide alloy contains very hard Carbides and this makes this material suitable for applications in high stress, severe sliding abrasion, non-hanging, high temperatures and moderate impact. The clad surface is covered in micro-fissures which are normally at 90 degrees to the direction of the weld.

Key Benefits

- Reduce the cost of maintenance
- Decrease downtime and increase productivity
- CRC 60 is extremely abrasion resistant. The overlay microstructure consists of densely packed chromium carbides and this provides abrasion and impact resistance
- CRC 60 is suitable for applications with temperatures up to 600°C
- The mild steel base plate can be easily welded, bolted or studded to existing structures
- Typical surface hardness is 60-63 Rockwell
- Can be cut by plasma, laser or water jet, welded and formed cold into most shapes
- Will last 6 to 8 times longer than typical 400HB plate
- Very smooth after wear-in period
- Special flat bed production process maintains better mechanical properties for accurate profiling and bending
- Material has full testing and traceability

Applications

- Chutes & Chute Liners
- Hopper & Bunker Liners
- Pan Mixer Liners
- Screen and crash decks
- Classifier Cones
- Internally Clad Pipe Work
- Bucket Protection
- Vibrating Feeder Trays

Industries it can be used in:

- Glass Recycling
- Metal Recycling
- Quarrying
- Cement
- Dredging
- Power Generation (Coal)
- Steel
- Mining
- Foundries
- Brick & Block Making
- Mineral Processing

Typical chemical composition of finished product



FS 545789

	C	Mn	Cr	Others	Fe
Initial Layer	4.5	2.2	32	1	Balance
Second Layer	4.3	2.1	31	1	Balance

Plate Sizes

3000mm x 1500mm (Clad area Min 2950mm x 1400mm)

2500mm x 1250mm (Clad area Min 2450mm x 1150mm)

2000mm x 1000mm (Clad area Min 1950mm x 900mm)

Maximum length of plate is 4000mm and width 2000mm

Stock Plate sizes (mm)	Chrome Carbide Overlay (mm)	Mild Steel Base (mm)	Combined Thickness (mm)
3000 x 1500	4	4	8
3000 x 1500	4	6	10
3000 x 1500	6	6	12
3000 x 1500	5	10	15
3000 x 1500	10	10	20
3000 x 1500	10	20	30

Other combinations can be made on request



Quality steel plate suppliers to the world

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