



Ultra Tough Impact Plate

**CastoDur® Diamond  Plate**  
**4923**

- Ultra-tough proprietary alloy when high impact becomes a costly factor
- Superior choice to 500 BHN grade steel with field-proven performance
- Excellent mechanical properties and toughness for impact
- Made-to-perform overlay formula for improved TCO

# CDP® 4923

CDP® 4923 is an ultra-tough, impact grade weld overlay plate. With its optimized toughness, CDP 4923 is the best choice when you have a combination of impact and abrasion.

Superior performance is achieved via ultra-tough alloy chemistry, making CDP 4923 a cost-effective solution when compared against AR steel plates and bimetallic castings.

## SHOCK TABLE IMPACT TESTING:

- ▶ Sample Size: 200mm X 300mm
- ▶ Impact Zone: 100mm x 35mm
  - 70 kg. of impact hammer dropping from 10 ft. height
  - Repeated continuously 3 times

**No delamination or disbondement of overlay layer**

## TECHNICAL DATA

### Typical Values

Nominal Hardness:	54 - 57 HRC
Microhardness:	3000 - 3200 DPH
ASTM G-65:	18 - 20 mm <sup>3</sup>
Plate Density:	7.86 g/cm <sup>3</sup>
Max. Service Temp.:	538°C
Typical Analysis:	Titanium Carbide

Plate Thickness (Base + Alloy)	Plate Dimension (Cladding Area)
13 mm (08+05)	1400 x 3500
19 mm (12+07)	1400 x 3500
20 mm (10+10)	1400 x 3500
26 mm (19+07)	1400 x 3500

### STANDARD SIZE:

- Standard Sheet: 1400 mm x 3500 mm (53 ft<sup>2</sup>)
- Made-to-spec base metal grade
  - Custom plate sizes are available upon request
  - Engineered overlay thickness based on application requirements

## PROCEDURE FOR USE

CDP 4923 premium wear plates are easily welded using Eutectic alloys.

### ELECTRODES

- Low and Medium carbon steels; high strength, low alloy steels: **EutecTrode® 966**

- Alloy steels; manganese steels; hardened steels: **9598 CEC**

Attachment weld may be overlayed with **Abratec N6715 XHD** or **EutecTrode® 6327 XHD** to protect against abrasive wear.

### WIRES

- Low and Medium carbon steels; high strength, low alloy steels: **EnDOtec® DO\*2665**

- Alloy steels; manganese steels; hardened steels: **EnDOtec® DO\*685** or **TeroMatec® OA 3302**

Attachment weld may be overlayed with **SafeHard 700** or **TeroMatec® OA 4923** to protect against abrasive wear.

## TYPICAL APPLICATIONS

Any applications where AR plate doesn't hold up to the abrasion but is needed for the impact:

- Primary / Secondary Crusher
- Entry / Discharge Chutes
- Mine Skip Liners
- Skirtboard liners
- Conveyor skirting
- Vibratory feeders

