

Innovative Benchmark Wear Plate Built-to-Outperform

CastoDur Diamond ∇ **Plate**[®]

4688

- A complex alloy matrix containing Cr, B, Nb, V with WC micro granules spread throughout, producing a hardness up to 68 HRC
- Exceptional wear resistance to severe abrasion and impact
- Innovative Sinus-Wave wear pattern reduces localized wear and increases service life at high particle velocity
- Proven to outlast the service life of hardened steel and CrC plate (CCO) Lowest Total Cost of Ownership

CDP[®] 4688

CDP 4688 wear plate is produced using a highly alloyed, chromium iron tubular wire. The final weld deposit is a complex alloy matrix containing Cr, B, Nb, V with WC micro granules spread throughout. This complex metallurgical matrix, coupled with high hardness, provides the optimum resistance to wear under severe abrasion conditions.

CDP 4688 wear plate is manufactured in 51.5" x 112" sheets that can be cut, formed, or rolled to desired shapes. It can be easily bolted or welded into place. For custom fabrication, please contact Eutectic Technical Services.

CDP 4688 can be pre-polished to reduced material hang up.

Standard plates are manufactured in a XuperWave-s pattern. The XuperWave-s pattern is a unique sinus weld bead geometry that provides additional value, improving even more wear performance and minimizing plate scrap.

TECHNICAL DATA

Typical Values		
Nominal Hardness:	63-68 HRC	
Max Service Temperature:	842°F (450°C)	
Overall Wear Plate Density:	0.284 lb/in³	
ASTM G65 Wear Test Results:	13 mm³	

Overall Thickness	Base	Overlay	Approx. Wt per sq/ft
3/8" (10mm)	6mm	4mm	16 lb.
1/2" (12mm)	6mm	6mm	21 lb.
3/4" (19mm)	12mm	7mm	31 lb.
1" (25mm)	19mm	7mm	41 lb.

Typical Analysis with Principal Elements: Cr-W-B-Nb-V-Ni

PROCEDURE FOR USE

CDP 4688 wear plates are easily welded using Eutectic alloys.

SMAW (Electrode)

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

• Alloy steels; manganese steels; hardened steels: XHD[®] 6868, 9598 CEC (3/32" dia. (2.4mm))

Attachment weld may be overlayed with XHD Abratec N6715 to protect against abrasive wear.

FCAW (Wire)

• Low and Medium carbon steels; high strength, low alloy steels: EnDOtec® DO*266S or TeroMatec® OA 2020 (continuous electrodes)

• Alloy steels; manganese steels; hardened steels: EnDOtec® DO*68S or TeroMatec® OA 3205 (continuous electrodes)

Attachment weld may be overlayed with EnDOtec® DO*33 or TeroMatec® OA 4652 to protect against abrasive wear.

- Transfer, Rock & Dump Chutes
- Feed, Load-Out & Rock Bin Liners
- Cyclones & Hoppers
- Truck Body Liners
- Bucket Liners
- Skip Cars
- Crushers



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TYPICAL APPLICATIONS