

Complex Chromium Carbide Wear Plate

CastoDur® Diamond Plate 4666



WEAR PLATES

- Optimum resistance to wear by abrasion and erosion
- Greatly increased service life due to excellent homogeneity and the specific metallurgical characteristics of the weld deposit
- Easily formed and fabricated for custom component manufacturing
- A wide range of custom products for every industrial application



DESCRIPTION:

Eutectic CDP 4666 premium wear plate is a complex carbide alloy that is weld overlaid to a carbon steel base plate. When used in situations involving severe abrasion and moderate impact, CDP 4666 outlasts chromium carbide plates 2 to 4 times.

CDP 4666 premium wear plate is manufactured in 51.5" x 112" sheets that can be cut, formed, or rolled to desired shapes. CDP 4666 is easily bolted or welded into place. For custom fabrication, please contact Eutectic Technical Services.

TECHNICAL DATA:

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.

STANDARD SIZE:

51.5" x 112" (approx. 130cm x 284cm)

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.

OVERLAY PROPERTIES:

Nominal Hardness:	HRC 61 - 64
Microhardness:	DPH 2000-2100
Macrohardness:	HRC 61-64
Max Service Temperature:	842°F (450°C)
Overall Wear Plate Density:	0.284 lb/in ³
ASTM G65 Wear Test Results:	17 mm ³

Typical Analysis with Principal Elements:

Fe-Cr-Cb-C-B

WELDING INFORMATION:

CDP 4666 premium 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 overlaid with XHD Abratec N6715 to protect against abrasive wear.

GMAW (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 overlaid with EnDOtec® DO*33 or TeroMatec® OA 3952 to protect against abrasive wear.

APPLICATIONS:

For wear-preventive protecting of a wide range of steel components subject to severe abrasion or erosion by mineral particles, sand, rocks, gravel etc. processed in the Quarry, Earthmoving, Dredging, Sand/ Gravel, Coal/ Coke and Cement industries: pneumatic conveyor systems, mixer blades, pump impellers, mold screws, coal screens, excavator bucket teeth, conveyor chutes, sand pumps, concrete mixers, asphalt handling.

YOUR RESOURCE FOR PROTECTION, REPAIR AND JOINING SOLUTIONS



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