

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 4' x 9' 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"(13mm)	8mm	5mm	21 lb.
3/4"(19mm)	12mm	7mm	31 lb.

**STANDARD SIZE:** 48" (aprox. 122 cm) x 108" (aprox. 274 cm) (4' x 9')

## OVERLAY PROPERTIES:

Nominal Hardness: HRC 61 - 64  
Microhardness: DPH 2000-2100  
Macrohardness: HRC 61-64  
Max Service Temperature: 1200° F (approx. 649°C)  
Overall Wear Plate Density: 0.284 lb/in<sup>3</sup>  
ASTM G65 Wear Test Results: 19-mm<sup>3</sup>  
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. XHD® 66 electrode

Alloy steels; manganese steels; hardened steels. XHD® 6868 680CGS (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\*66 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

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EUTECTIC CORPORATION  
N94 W14355 Garwin Mace Drive  
Menomonee Falls, WI 53051 USA  
Tel.: +1 (800) 558-8524  
eutectic.com

EUTECTIC CANADA  
428, rue Aimé-Vincent  
Vaudreuil-Dorion, Québec  
J7V 5V5 Canada  
Tel.: +1 (800) 361-9439  
eutectic.ca

