# **Complex Chromium Carbide Wear Plate**

# CastoDur<sup>®</sup> Diamond VPlate 4666



- 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 overlayed 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/in³
ASTM G65 Wear Test Results:	17 mm³

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 overlayed with XHD Abratec N6715 to protect		

# GMAW (Wire)

against abrasive wear.

Low and Medium carbon steels; high strength, low	EnDOtec® DO*266S or TeroMatec® OA 2020
alloy steels.	Continuous electrodes
Alloy steels; manganese steels; hardened steels.	EnDOtec® DO*68S or TeroMatec® OA 3205
steels, hardened steels.	Continuous electrodes
Attachment weld may be overlayed 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



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



Statement of Liability: Due to variations inherent in specific applications, the technical information contained herein, including any information as to suggested product applications or results, is presented without representation or warranty, expressed or implied. Without limitation, there are no warranties of merchantability or of fitness for a particular purpose. Each process and application must be fully evaluated by the user in all respects, including suitability, compliance with applicable law and non-infringement of the rights of others, and Eutectic Corporation and its affiliates shall have no liability in respect thereof. 4666 July 2017 © 2008, Eutectic Canada, @ Reg. T.M., Printed in Canada