

Chromium Carbide Wear Plate

CastoDur® Diamond Plate 1001



WEAR PLATES

- Improved resistance to wear by abrasion, moderate impact, and heat
- A wide range of custom products for every industrial application
- Can be easily cut by plasma or abrasive waterjet process
- Easily formed and fabricated for custom component manufacturing



DESCRIPTION:

CDP 1001 wearplate is a Chrome Carbide welded overlay on a carbon steel base plate. This combination of materials allows 1001 wearplate to maintain structural integrity in situations involving abrasion, moderate impact and heat.

1001 is manufactured in standard sheets of 55" x 115" that can be cut, formed or rolled to desired shapes. 1001 is easily welded or bolted into place. For custom shapes, sizes and fabrication please contact our Technical Service Department. Larger sheets are available upon request.

TECHNICAL DATA:

Overall Thickness	Base	Overlay	Approx. Wt per sq/ft
1/4" (6mm)	3mm	3mm	11 lb.
3/8" (10mm)	6mm	4mm	16 lb.
1/2" (12mm)	6mm	6mm	21 lb.
3/4" (20mm)	10mm	10mm	30 lb.
1" (25mm)	12mm	12mm	41 lb.

STANDARD SIZE:

Base Plate: 5' x 10' (152cm x 305 cm)
Welded Area: 55" x 115" (140cm x 292 cm)

Plate Thickness: from 1/4" to 1" (6mm to 25mm)

OVERLAY PROPERTIES:

Overlay Hardness: HRC 58-61
Microhardness of Cr C DPH: 1800-2000
Max Service Temperature: 842°F (450°C)
Overall Wear Plate Density: 0.284 lb/in³
ASTM G65 Wear Test Results: 21mm³
Typ. Analysis with Principal Elements:
C, Cr, Mn, Si, Fe, B

WELDING INFORMATION:

CDP 1001 wear plates are easily welded using Eutectic alloys:

SMAW (Electrode)

Low and Medium carbon steels; high strength, low alloy steels. 966 electrode

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*10 or TeroMatec® OA 4603 to protect against abrasive wear.

TYPICAL APPLICATIONS:

Cement:

Fan Blades, Deflector Blades and Roller Mill Classifiers

Utilities:

Exhauster Blades and Classifiers, Boiler Ducts and Burners

Pulp & Paper:

Chipper Housings, Chip Blowers and Hog Housing Liners

Oil Sand Mining:

Feed Aprons & Chutes, Haul Trucks, Skid Pads and Runners

Recyclers:

Wear Guides, Deflectors, Holding Bins and Hoppers

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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



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