Complex Chromium Carbide Wear Plate

• 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 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:

<table>
<thead>
<tr>
<th>Overall Thickness</th>
<th>Base</th>
<th>Overlay</th>
<th>Approx. Wt. per sq/ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8” (10mm)</td>
<td>6mm</td>
<td>4mm</td>
<td>16 lb.</td>
</tr>
<tr>
<td>1/2” (13mm)</td>
<td>8mm</td>
<td>5mm</td>
<td>21 lb.</td>
</tr>
<tr>
<td>3/4” (19mm)</td>
<td>12mm</td>
<td>7mm</td>
<td>31 lb.</td>
</tr>
</tbody>
</table>

STANDARD SIZE: 48” (approx. 122 cm) x 108” (approx. 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/in³
ASTM G65 Wear Test Results: 19-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.
XHD® 66 electrode

Alloy steels; manganese steels; hardened steels.
XHD® 6868 680CGS (3/32” dia. (2.4mm))

Attachment weld may be overlayed 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 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.