CHROMAX
Wear Resist Plates

CHROMAX Wear Resist Plate is manufactured by a unique process in which a heavy layer of highly wear resistant carbides are deposited on a mild steel base. Very hard carbides are suspended in a tough wear resistant matrix. It is the concentration of the carbide structure that gives CHROMAX Wear Resist Plate its unique wear characteristics.

DESCRIPTION:
The bond between the mild steel base and the overlay is of very high strength. It will resist repeated and prolonged impact loads and the overlay deposit offers unequalled resistance to low or high stress abrasion and elevated temperatures upto 700°C. Cold Abrasion tests carried out on CHROMAX WEAR RESIST PLATE have shown a 30 to 1 improvement in wear resistance over mild steel. Hot abrasion tests have shown a 20 to 1 improvement over mild steel at 600°C in applications such as ore chutes in steel mills and 3 to 1 improvement over traditional hard facing and alloys such as ni-hard, etc.

APPEARANCE:
The overlaid side of CHROMAX PLATE appears as about 35 mm to 40 mm smooth wide beads with cross checks at right angle to the surface and do not penetrate beyond the carbide layer.

<table>
<thead>
<tr>
<th>Grades</th>
<th>Hardness in Rc</th>
<th>Alloying Elements</th>
<th>Suitable for Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromax 2458</td>
<td>53-57</td>
<td>C, Cr, Mn, Si</td>
<td>Severe Impact and Abrasion</td>
</tr>
<tr>
<td>Chromax 2459</td>
<td>55-60</td>
<td>C, Cr, Mn, Si, B</td>
<td>Moderate Impact and Abrasion</td>
</tr>
<tr>
<td>Chromax 2660</td>
<td>58-62</td>
<td>C, Cr, Mn, B</td>
<td>Severe Abrasion and Mild Impact</td>
</tr>
<tr>
<td>Chromax 2661</td>
<td>60-63</td>
<td>C, Cr, Mo, V, B</td>
<td>Severe Abrasion and Erosion</td>
</tr>
<tr>
<td>Chromax 2662</td>
<td>62-65</td>
<td>C, Cr, Mo, V, W, Nb</td>
<td>Severe Abrasion at Elevated Temperature</td>
</tr>
</tbody>
</table>

We also make CHROMAX plates with Chemical composition and hardness to suit the applications and customer requirements.
**CHROMAX Wear Plate: Standard Thickness in mm**

<table>
<thead>
<tr>
<th>Base plate thickness</th>
<th>Overlay thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>3,4</td>
</tr>
<tr>
<td>8</td>
<td>4,6,8</td>
</tr>
<tr>
<td>10</td>
<td>4,6,8</td>
</tr>
<tr>
<td>12</td>
<td>4,6,8</td>
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<tr>
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<td>4,6,8</td>
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<tr>
<td>16</td>
<td>4,6,8</td>
</tr>
<tr>
<td>20</td>
<td>4,6,8</td>
</tr>
</tbody>
</table>

Standard Size available in mm:
1170 x 3050, 1420 x 3050, 2350 x 3050

**Cutting and fixing**

CHROMAX PLATE is usually cut by plasma arc, but can also be cut with gouging / cutting electrodes.

CHROMAX PLATES can be welded to an existing metal structure by welding the mild steel base with low hydrogen electrode depending upon the metal structure. Alternatively, studs or counter sunk holes can be provided.

**Typical Applications**

- **Power Plants**
  - ID Fan Casing liner
  - Vibratory Feeders
  - Cyclone Blades and Housing
  - Coal Quenching Cars
  - CHP Chutes
  - Surge Hoppers
  - Coal Feeder Plates
  - Protection Collars
  - Feeder Breaker and Crusher Liner Plates

- **Steel Plants**
  - Screen Plates
  - Sinter Fan Blades and Casing
  - Transfer chutes
  - Bunker Liners
  - Vibratory Feeder liners
  - Scroll Casing liners, Crusher liners, etc....
  - Coke Guide Plates
  - Cyclones
  - Raw material Bins

- **Cement Industries**
  - Clinker Dust Cyclone liners
  - Screen plates
  - Coal Mill Fan Blades
  - Separators
  - Chutes
  - Hammer Mill liners
  - Raw Mill ducts
  - Crusher liners
  - Ventilators
  - Fan Casing liners

- **Mines and Collieries**
  - Transfer Chutes
  - Hopper Liners
  - Skirt and Chute liners
  - Vibratory Feeder liners
  - Conveyor chute liners
  - Crusher Liners
  - Ore Cars

- **Earth Moving Equipments**
  - Reject Bin Liners
  - Dump Truck Body
  - Ore scrapers
  - Grizzly Bars and side plates
  - Drag line Buckets

- **Chemical Process Plants & Pneumatic Conveying**
  - Mixer Paddles
  - Clinker Chutes
  - Concrete Mixers
  - Spouts and Troughs

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