CDP Standard Plates

CastoDurDiamond Plate 4601

DESCRIPTION

CDP XuperWave 4601 is the ideal wearplate for applications where the right balance between price and service life is required, thus maintaining the Castolin high standard welding quality and smooth surface. The exclusive XuperWave weld bead pattern drastically reduces the wear rate, especially in applications exposed to high velocity erodent fluxes. The extreme hard weld cladded surface is specially designed for erosion and abrasion applications.
Dimensions: 1.500 x 3.000mm (1.220 x 2.740mm coated, 3,34 m2) Base material: mild steel – other metals available on request
Available versions (other sizes available on request):
4601 DXW Coated on one side with a single layer of wearfacing alloy.

Product Details

- Reduces maintenance costs through better and longer service life of parts exposed to abrasion and erosion
- Reduces wear rate with its Castolin Eutectic XuperWave pattern and its rich chromium carbide structure.
- Offers the right balance between price and performance for all your everyday applications
- Conserves resources and protects the environment

APPLICATIONS

Industries: Cement, mining, dredging, quarries, public works, steel.
Components: Pump and dredger parts, rolls, crusher pinions and rolls, conveyor screws, bulldozer blades, ripper teeth, dredger pump shaft supports, augers, grader blades, vehicle track links, scrapers, wire drawing entry and exit guides.

TECHNICAL DATA

Typical hardness: 60 - 58 HRC
Carbide Content: > %30
Max. Service Temperature: °250C
Dimensions: 1.500 x 3.000mm (2.740 × 1.220mm coated, 3.34 m²)
Pattern: Exclusive XuperWave weld bead pattern

Available versions (other sizes available on request)

Base material thickness(mm)	Hardfacing Thickness (mm)
5mm	3mm
6mm	4mm
8mm	4mm
8mm	5mm
10mm	5mm
15mm	5mm

CastoDurDiamond Plate 3952

DESCRIPTION

Special, self-shielded flux cored alloy wire specifically developed for outdoor maintenance and repair welding of thick, heavy components where faster weld deposition rates over traditional coated electrodes are required.

Complex carbides alloy containing chromium, molybdenum, and niobium giving deposits with very high concentration of ultra-hard, primary, and eutectic phases to produce maximum resistance to fine, hot particle abrasion and erosion by coke, clinker, cement, or sand at elevated temperatures.

Product Details

Exceptional resistance to hot abrasion up to °650C.
Smooth deposits without machining.
Very hard deposits with one or two layers maximum.
Automatic formation of stress relief cracks.
Deposits can be grinded and resist rusting.
Ideal choice for field work or on-site applications.
No need for costly gas cylinders, regulators, or flow meters.
Relatively thick, wide overlays possible in single pass.
No enforced stop-starts increase welding duty cycles.
Variable electrode stick out capability improves control over heat input, dilution, deposition rate, visibility, and access in tight spaces.

APPLICATIONS

For use on steel, alloy steel, and 12-14% Mn steel parts.
Clinker, sinter crushers.
Cement exhaust fan blades.
Blast furnace bells and hoppers.
Hot screens, wear plates, mold extruders.
Sinter crushers and fans, hot sieves, screens, and bells.

TECHNICAL DATA:

Typical hardness : 65HRC
Max. Service Temperature: 650 C

Available versions (other sizes available on request)

Base material thickness(mm)	Hardfacing Thickness (mm)
5mm	3mm
6mm	4mm
8mm	4mm
8mm	5mm
10mm	5mm
15mm	5mm

CastoDurDiamond Plate 4623i

Castodur Diamond Plates Active Protection Against Impact And Mild Abrasion

DESCRIPTION
CDP 4623i is the High Load impact wearplate. The tough martensitic matrix contains complex carbides that are finely and homogeneously dispersed. This specific crystallographic structure allows the CDP 4623i to withstand extreme conditions of impacts even when mild abrasion is present. This product is suitable for chutes, buckets, crushers and any other application with impacts.

Product Details

- Offers the best protection against combined wear by impact and mild abrasion.
- Resists impact where standard wearplates fail.
- Improves service life of parts such as buckets, chutes, conveyors and any other element exposed to strong impacts.

APPLICATIONS

Industries: Suitable for applications involving chutes, buckets, crushers, and any other equipment subjected to impacts.
Components: Buckets, chutes, conveyors, crushers.

TECHINICAL DATA:

Typical hardness: 53-55 HRC
Max operating temperature: 150°C

Available versions (other sizes available on request)

Base material thickness(mm)	Hardfacing Thickness (mm)
5mm	3mm
6mm	4mm
8mm	4mm
8mm	5mm
10mm	5mm
15mm	5mm

CastoDurDiamond Plate 4666

Complex Chromium Carbide Wear Plate

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. 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

Product Details

Type: Wear Plate
Base Material: Mild Steel (other metals available on request)
Wearfacing Material: Chromium Carbide, Niobium Carbide, and Boron Carbide Rich Alloy

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.

TECHNICAL DATA

Typical hardness: 61 - 64 HRC
Microhardness: DPH 2100-2000
Max Service Temperature: °1200F (°649C)

Available versions (other sizes available on request)

Base material thickness(mm)	Hardfacing Thickness (mm)
5mm	3mm
6mm	4mm
8mm	4mm
8mm	5mm
10mm	5mm
15mm	5mm

CastoFuse

Highest Impact - Abrasion Resistant Liner

DESCRIPTION

CASTOFUSE is a wear-resistant fused alloy steel plate designed for durability and smooth material flow. Manufactured with controlled parameters, it offers a dense, carbide-rich overlay that's undiluted, low-friction, and free of weld beads. With a consistent microstructure and hardness down to the fusion line, dilution with the backing plate is minimal, ensuring predictable wear rates. The alloy layer is bonded at a controlled temperature to equalize stress. CASTOFUSE enhances abrasion and impact resistance, extending equipment lifespan, efficiency, and productivity, all while reducing maintenance costs. Ideal for demanding applications, it boosts performance and optimizes operational costs.

Product Details

- The world's best wear resistant liner CASTOFUSE wear plate.
- Very smooth Surface, very low residual stress. (No weld bead on surface)
- Unique manufacturing process produces a flat fusion line.
- Low friction coefficient properties (Anti Hang up)
- Single pass alloy deposition, Consistent & dense alloy composite microstructure.
- Minimal metal dilution, No plate distortion.
- 100% metallurgical bonding between alloy and base material.
- Controlled colling provides perfect carbide formation.
- Can fabricate & supply as per drawing prepared parts.

APPLICATIONS

Industries: Industrial applications requiring localized heating and precise control of gases. Components: Coating and repair work, particularly where precise heat application is necessary.

TECHNICAL DATA :

Typical hardness : 56 - 62HRC
Carbides dispersed : 50 to 60 % at surface.

Available versions (other sizes available on request)

Base plate thickness (mm)	Castofuse layer (mm)
6mm	6mm
8mm	8mm
10mm	10mm
12mm	11mm
12mm	18mm

CastoDur Diamond Powder Plates

Castodur Diamond Plate Best Protection Against Corrosion, Erosion And Abrasion!

DESCRIPTION

CastoDur Diamond Powder Plates (CDP) are specialized wear-resistant plates designed for industrial applications requiring protection against corrosion, erosion, and abrasion. These plates are fabricated using advanced techniques such as arc welding, vacuum fusion, or laser powder coating, ensuring high-quality and uniform properties across the entire surface.

Product Details

CDP 112: Highest abrasion and erosion resistance.
CDP 212: High abrasion and erosion resistance in non-corrosive conditions.
CDP 496: High corrosion resistance and low metal friction.

APPLICATIONS

Precision Parts: Suitable for precision parts and complex constructions.
Metal/Metal Friction Applications: Ideal for applications where clogging and deposits on the plate surface must be avoided.
Cutting Methods: Can be cut with laser, plasma, or water-jet machines.
Formability: Easily formed by rolling.

TECHNICAL DATA :

Base material 4 mm
Coating thickness: 2 mm

Available versions (other sizes available on request)

HD8

High Performance Coating

DESCRIPTION

HD8 contains a high content of tungsten carbides (about 60%) in a nickel-based matrix.
Extreme wear-resistant coating Very high density of tungsten carbides in a nickel-based matrix.
Smooth surface ideal for protection against extreme abrasion or erosion.
Plates as well as customized parts available.

Product Details

Extreme wear resistance.
High tungsten carbide content in a nickel-based matrix.
Innovative welding process reducing matrix brittleness.
Low and even dilution.
Smooth surface.
High deposition rate.
Flexibility in plate sizes and cutting quality.
Base Metal Dilution, Homogeneous and lower than 15%.
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APPLICATIONS

Industries: Mining, power generation, cement, steel manufacturing, agriculture.
Specific Uses: Heavy-duty fans, nozzle rings in vertical roller mills, open mine excavators, bucket shovels teeth, ploughs, FLSmidth Cross-Bar Coolers.

The deposit is machinable by grinding. Arc or plasma cutting equipment may also be used.

TECHNICAL DATA :

Typical hardness: 60 HRC.

Available versions (other sizes available on request)

Base plate thickness (mm)	HD8 thickness (mm)
6mm	3mm
8mm	3mm
10mm	3mm
12mm	3mm
15mm	3mm
20mm	3mm

Other thicknesses on special request