



# **CastoDur<sup>®</sup> Diamond Plate**



- A wide range of high performance wear plates for every industrial application
- Optimized performance and reliability for maximum wear protection
- Increased service life for a better payoff on your investments
- Innovative Sinus-Wave pattern reducing high velocity particle abrasion

# CDP® Wear Plates

*Built to Outlast and Outperform for Ultimate Wear Protection*

## *The Eutectic Difference*

### The process

Eutectic's proprietary welding process creates superior wear performance with the following value-added benefits:

- Constant hardness throughout the depth of weld deposit.
- Uniform distribution of dense, ultra-tough grain microstructure across the welded plate.
- Optimum heat input maximizes carbide performance hence wear characteristics.
- Minimized cross-checking with the proprietary welding process.
- Welded flat to eliminate any post weld quality problems, such as delamination.

### The alloys

Eutectic offers a wide selection of engineered alloys to combat all types of wear.

- Available in welded, fused and laser clad overlays to meet your extreme wear requirements.
- Chromium Carbide, Complex Carbide, and Tungsten Carbide alloys developed to resist combinations of abrasion, impact, erosion and high heat wear.
- Eutectic offers matching alloys, in electrode and wire form, for joining and capping all seams - complete protection!

### The XuperWave®-S pattern

The sinus wave pattern reduces wear by up to 30% over conventional plates.

- Designed to withstand high-velocity fine particle abrasion.
- No particle tracking or premature wear.
- Increased plate performance by reducing localized wear.
- Easier forming due to alternating weld-bead direction.



*XuperWave-S weld pattern*

# Broadest Product Selection

**Weld Overlay Plates:** Eutectic's CDP® Weld Overlay Plate selection offers high-performance resistance to abrasion, erosion, impact and material hang up. Plates are available in 4'x9' or, depending on the alloy, 5'x10'. Contact Eutectic for availability.

**Fused Plates:** Eutectic's CDP® Fused Plates provide maximum protection even with the thinnest of deposits, making this plate lightweight, easy to handle and easily formed into a tight radius.

**Laser Plates:** Eutectic's CDP® Laser Plates contain the highest content of tungsten carbide with the lowest dilution available on an ultra-hard deposit. Ideal solution for applications that require lightweight protection from high erosion and abrasion wear.

## CDP® Selection Guide

Recommended joining alloys EnDOTec DO\*66 or EnDOTec DO\*68S wires or EutecTode 66 or 680 electrodes.

\* Contact Eutectic for capping alloy products.

PLATE	TYPE	ABRASION	EROSION	IMPACT	CORROSION	DESCRIPTION	G65*	HARDNESS (HRC)	TOTAL PLATE THICKNESS**		
<b>CDP 395N</b>	WELDED	***	***	***	*	<b>EXTREME ABRASION RESISTANCE</b> NanoAlloy® nano size ultra hard phases	16 mm <sup>3</sup>	68-71	10mm (3/8")	13mm (1/2")	19mm (3/4")
<b>CDP 4666</b>	WELDED	**	**	**	*	<b>SEVERE ABRASION RESISTANCE</b> Complex carbides and borides. High-temperature	17 mm <sup>3</sup>	61-64	8mm (5/16")	10mm (3/8")	13mm (1/2") 19mm (3/4")
<b>CDP 4923</b>	WELDED	**	**	***	*	<b>HIGHEST IMPACT RESISTANCE</b> Titanium carbide	24 mm <sup>3</sup>	54-57	19mm (3/4")		
<b>CDP 4624</b>	WELDED	**	**	**	*	<b>HIGH ABRASION RESISTANCE</b> Chromium carbide	23 mm <sup>3</sup>	58-61	10mm (3/8")	13mm (1/2")	19mm (3/4")
<b>CDP 112</b>	FUSED	***	***	*	***	Lightweight with hard Nickel alloy matrix and Tungsten carbide particles	12 mm <sup>3</sup>	58-61	6mm (1/4")		
<b>CDP LC-8</b>	LASER	***	***	*	***	60% Tungsten carbide on a hard Nickel alloy matrix	10 mm <sup>3</sup>	61-65	4mm (5/32")	5.5mm (7/32")	

\*\* Custom thicknesses available upon request.

\* ASTM G65 average volume loss in mm<sup>3</sup> after plate is subjected to wear by dry sand abrasion.

RATING CODE: \* = Not recommended

\*\*\*\*\* = Best Performance



# Eutectic Services - Maintenance & Repair Workshops

Facing daily production problems and the shortage of skilled welders many companies are outsourcing their maintenance and repair to the experts. Eutectic has over 100 years of maintenance expertise solving heavy industry's toughest wear problems.

Our experienced Eutectic Services technicians will evaluate the wear phenomenon and provide you with the most reliable and cost effective solution. Often this means a combination of alloys and a specialized welding or thermal spray process only a manufacturer of the product can provide. Or, maybe a replacement wear plate part or pipe is the solution. We can provide new and semi-finished parts ready to be installed, saving you costly down time and labor in your maintenance operations.

No matter what the wear or joining challenge, our fully equipped and professionally staffed Eutectic Services workshop can help you.



Feed Hopper



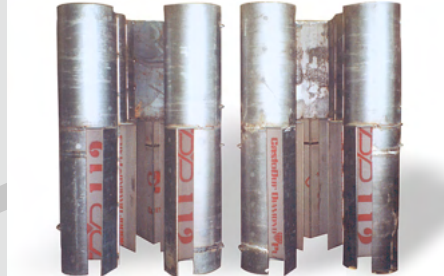
Pipe



Pans



Feed Screw/Auger



Exhaust Filter Cyclone Tubes



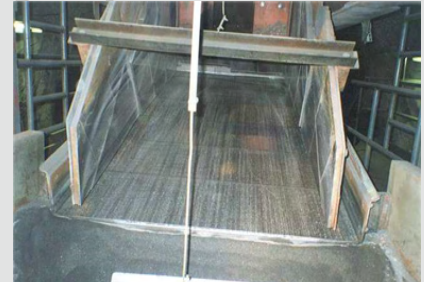
Fans



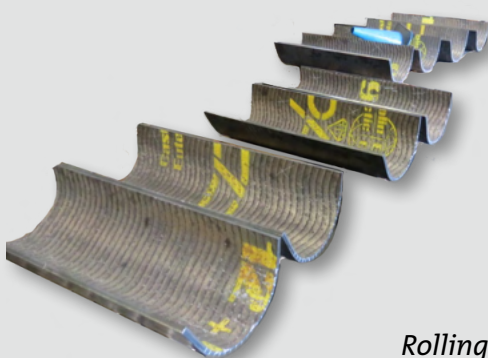
Custom Boxes



Grates



Chutes



Rolling



Cutting

