



CastoFuse

Highest IMPACT - ABRASION Resistant Liner



Experts in repair and maintenance at your SERVICE
Pioneering Industrial Sustainability



Global Presence & Local Outreach

Our UAE Service Centers provide a local presence, though our expertise spans the globe, with international teams that pool resources to solve difficult industrial wear problems in a cost-effective way.

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Mining



Power



Steel



Cement



Agricultural



Pulp & Paper



Oil & Refinery



Heavy Machinery



1538 Employees



10 Supply Centers



20 Service Centers



31 Market Centers

Castolin Eutectic wear management specialists have technically advanced solutions that redefine equipment life cycles across service centers, regardless of the wear mechanism

Pioneering Industrial Sustainability

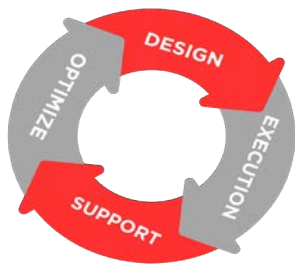
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Performance Mindset With CASTOLIN EUTECTIC!

Critical industrial equipment is subject to extreme wear, with planned and unplanned shutdowns increasing your maintenance and operational costs. Areas that are difficult to access, such as those at a high elevation, pose an even greater risk to employee safety and your bottom line. In this type of environment, superior wear-resistant materials are vital to covering wear-prone areas and serve as a way for companies to improve performance and reduce costs.

As a strong global player in wear management and performance, CASTOLIN EUTECTIC is committed to delivering “the optimum solution” to improve your operational and maintenance KPIs, such as:



- Mean time between failures (MTBF)
- Maintenance man-hours (MMH)
- Mean downtime (MDT)
- Cost per ton mined (CPTM)

Your bottom-line matters to us!

Our wear experts are dedicated to helping you realize the lowest cost-per-ton possible using our wear management solutions. From mobile and fixed equipment to complete backfill piping systems, our global teams offer field and benchmark performance testing and mine-specific baseline analysis to determine your total cost of ownership. Schedule a service call with one of our industry specialists today!

For over 100 years, Castolin Eutectic has been at the forefront of supplying the market with value-added surface protection products and solutions. Castolin Eutectic strives to improve the existing life cycle of plant assets to provide the optimum operational performance against the effects of high-wear abrasion, high-impact, gouging, and other wear-related maintenance failures.



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CASTOFUSE



Advantages :

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.

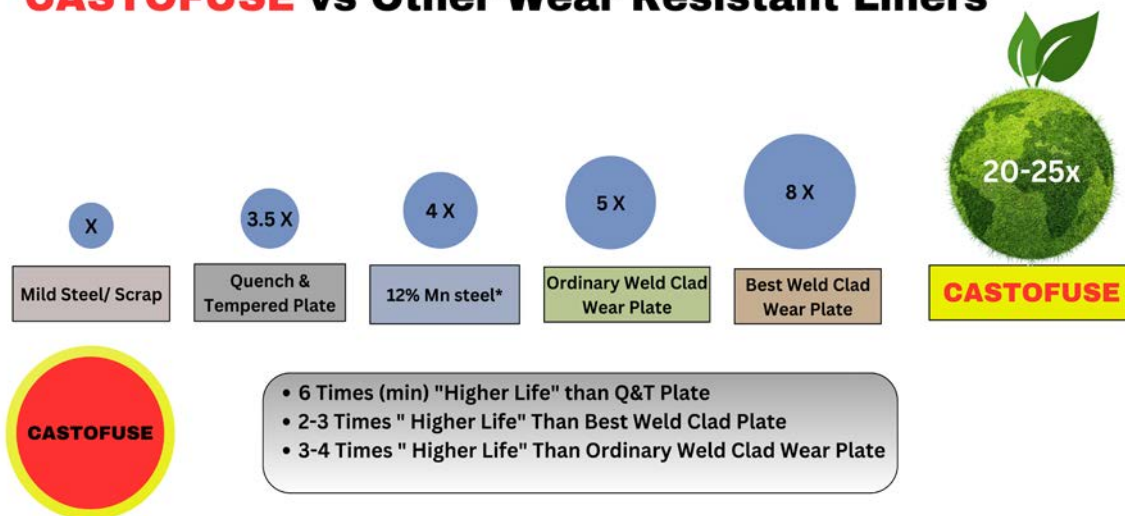
Base Metal Thickness	Castofuse layer
6mm	6mm
8mm	8mm
10mm	10mm
12mm	11mm
12mm	18mm

Technical Data:

- Hardness : 56HRC to 62HRC
- Alloying elements :Eutectic tough carbides
- Carbides dispersed : 50 to 60 % at surface

**Manufacturing up to 40MM thickness and higher thickness on special order.*

CASTOFUSE vs Other Wear Resistant Liners



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CASTOFUSE

Description

CASTOFUSE is a wear resistant fused alloy steel plate. It is a smooth dense, carbide rich overlay plate manufactured by a controlled parameter production process. These parameters enable us to provide a much longer lasting undiluted overlay with a very low coefficient of friction with no weld beads to interrupt material flow.

CASTOFUSE has consistent microstructure & hardness down to fusion line . Alloy dilution with the backing plate is kept to a minimum wear rates become consistent and predictable. The base metal temperature is gradually increased at a predetermined temperature the high alloy hard layer is bonded to the base metal. The fusion temperature is maintained for a set time so that stresses between the alloy and the base metal are equalized.

CASTOFUSE maximise abrasion and impact resistance for various applications, and this will result in enhance equipment performance by maximizing life span, increasing efficiency as well as improving productivity of equipment at a lower maintenance cost .



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WHO WE ARE WHY WE DO, WHAT WE DO

Millions of users in the heavy-duty and wear industries trust our brand. For over 100 years, we have developed innovative products and solutions for our customers and risen to the challenge of reducing maintenance costs and increasing industrial productivity through welding, brazing and coating technologies.



Services



Welding



Brazing



Coating



Equipment

CUSTOMER SATISFACTION IS THE KEY

CUSTOMER FOCUS

- Global sales presence with sales engineers, product and key account managers
- Focus on customer needs: one face for the customer
- Partnership / long-term relationship: shared competitive advantage



...OUR SOLUTIONS

...OUR EQUIPMENT

...OUR CONSUMABLES

GLOBAL INFRASTRUCTURE

- Multiple manufacturing/services sites as well as warehouse and logistics capabilities in Americas, Europe, AME and Japan/Asia



WELDING

- Electrodes
- TIG
- Solid and cored wires

- MMA
- MIG/MAG
- WIG
- PTA
- Plasma cutting



Equipment + Consumables

COATING

- Laser-Cladding
- PTA
- Arc spraying
- HVOF
- Flame spraying

BRAZING

- Fluxes
- Pastes
- Rods
- Torches
- Water-based oxyfuel stations

TECHNOLOGY LEADER

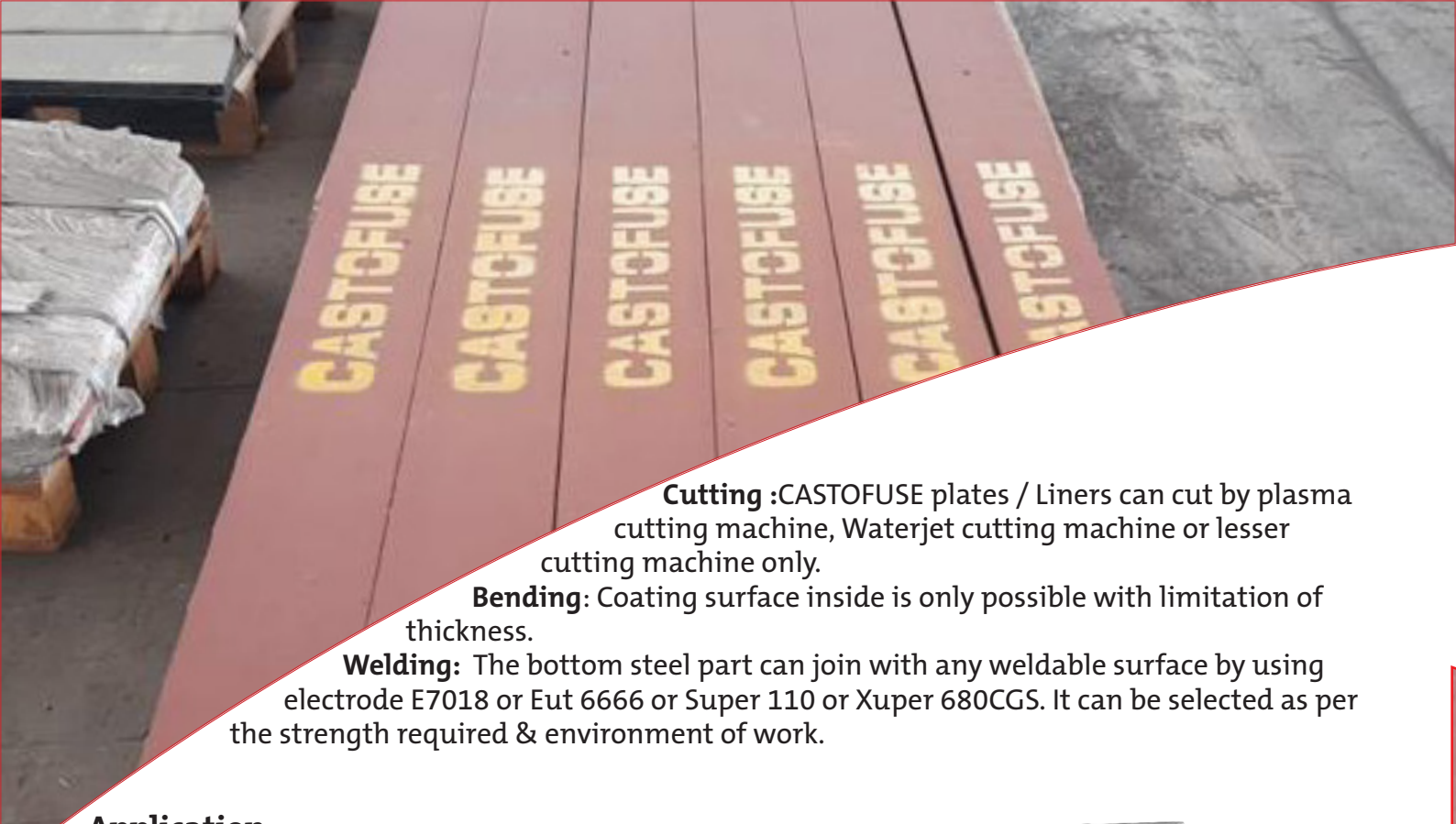
Broad technology range covering all wear & joining applications

- Solutions based on service expertise, quality consumables and world-class equipment
- Complete application development from product to manufacturing capabilities



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Cutting :CASTOFUSE plates / Liners can cut by plasma cutting machine, Waterjet cutting machine or lesser cutting machine only.

Bending: Coating surface inside is only possible with limitation of thickness.

Welding: The bottom steel part can join with any weldable surface by using electrode E7018 or Eut 6666 or Super 110 or Xuper 680CGS. It can be selected as per the strength required & environment of work.

Application:

- Crusher body, inlet & outlet chutes liners.
- Belt skirt liner, transfer chute liner.
- Tub liners, Feed bin liners & tray liners.
- Bucket body liners & dumper tail end liners.
- Wear strip
- Earth moving machinery
- Bucket,
- Shovels
- Dump truck boxes
- Ore chutes
- Inlet feeding chutes
- High impact wear liners



*“We help mechanical parts to perform
beyond their limits”*



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