



ECI MAXI®

ENDURA CLAD
INTERNATIONAL

ECI MAXI® is the super extreme in wear resistant wear plate and is designed for applications that experience severe abrasion, where standard wear plate is ineffective. ECI MAXI® is available in a range of thickness between 5mm – 15mm

Base Material

The standard base material is mild steel plate of varying thickness, ensuring the finished parts are readily weldable. Alternative base plate grades can be incorporated with the ECI MAXI® overlay to meet specific customer requirements. Additionally, ECI MAXI® overlay can be applied direct to shaped items.

Overlay Material

The ECI MAXI® overlay consists of Tungsten Carbide granules are spread through a tough matrix of Ni, Si, B.

Specification

ECI MAXI® overlay has been manufactured to ensure compliance with the microstructure, chemistry, hardness and dry abrasion test values for specific customer requirements.

Typical Properties

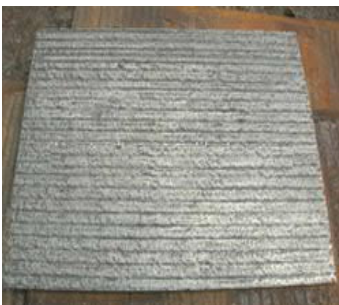
Bulk Hardness:	>700 HV30 (>58 HRC)
Carbide Micro Hardness:	>1900 HV _{0.1}
Volume fraction Carbides/Hard phase:	>60%

Welding

When ECI MAXI® applied to mild steel, weld the base material with standard low hydrogen welding consumables. (Avoid contact with overlay material)

Cutting, Forming and Fabrication

Where required plasma cutting is the recommended method for cutting ECI MAXI®. The mild steel backing plate provides ECI MAXI® with structural integrity, thus allowing entire structures to be fabricated from ECI MAXI®.



Technical Data Sheet available upon request.

Benefits

- Can be applied to shapes.
- Minimal penetration to achieve metallurgical bond.
- Welding of plates into position is made easy due to mild steel base.
- Proven performance against Q&T Steels
- Readily formed into almost any shape mild steel can.

Applications

Applications involving severe sliding abrasion and medium impact, such as.

- Chutes
- Ground Engaging Tools
- Mixer Paddles
- Ore Handling Systems
- Drilling Parts
- Shell Protection
- Liner Plates
- Extruders

Perth (Head Office)

41 Roscoe Street, Henderson
Western Australia 6166

Ph: +61 8 9437 4506
Perth@enduraclad.com.au

www.enduraclad.com.au

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Brisbane

47 Proprietary Street, Tingalpa
Queensland 4173

Ph: +61 7 3390 6876
Brisbane@enduraclad.com.au