EMEX™

EMEX™ is the new future of wear resistant plate. The nano style microstructure gives EMEX™ not only superior protection from abrasion, but also unheard of impact resistance!
Designed for applications that experience severe abrasion, and impact where standard wear plate and Plasma Transfer Arc (PTA) is ineffective. EMEX™ is available in a range of thicknesses and is designed to help with weight reduction by applying thinner layers.

Base Material

EMEX™ overlay can be applied direct to shaped items as well as to standard base material such as mild steel plate of varying thicknesses, ensuring the finished parts are readily weldable. Alternative base plate grades can be incorporated with the EMEX™ overlay to meet specific customer requirements.

Specification

EMEX™ PTA 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:	>800 HV30
Volume fraction Carbides/Hard phase:	>40%
Micro Hardness:	>1000 $HV_{0.3}$
Abrasion resistance ASTM G65-04 Procedure A	<0.0485g

Impact Resistance: EMEX™ can withstand continuous impact

Benefits

Increase in wear life allows for:

- Increased Production.
- Reduced Downtime.
- Reduction in Labour Costs
- Reduction in weight while maintaining wear life.

Applications

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

- Impact plates
- Ground Engaging Tools
- Mixer Paddles
- Ore Handling Systems
- Drilling Parts
- Liner Plates
- Exhaust Fans
- Grizzley Bars
- Dump Trucks
- Bull Dozers

Technical Data Sheet available upon request.