



In partnership with NobelClad, the world's leading manufacturer of clad plates, BIBUS Metals is pleased to offer DetaClad™ products. Demanding industries count on the strength of NobelClad's proprietary explosion-welding process, to fabricate clad plate for specialized corrosive, mechanical electrical and thermal uses.

WHAT IS CLAD?

The best of both metals! Explosion cladding is a cold welding process that uses specialized parameters to bond dissimilar metals while retaining the best properties of both metals. Joining a thin, corrosion resistant alloy to a lower cost metal is a more cost effective solution, provides corrosion resistance, composite mechanical properties and reduces process down time and maintenance. NobelClad is the only company that can deliver high shear strength and high tensile strength across 260+ metal combinations.

DETA CLAD™ INDUSTRY SECTORS

OIL & GAS



Upstream separation and processing, downstream refining

POWER GENERATION



Condensers, polysilicon production, biofuels and geothermal applications

CHEMICAL & PETROCHEMICAL



PTA, acetic acid, nitric acid and chlorate production

METAL REDUCTION & PROCESSING:



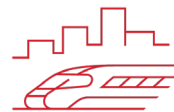
Autoclaves, reducing pots, aluminium and zinc smelting anode and cathode electrical transition joints

INDUSTRIAL REFRIGERATION



Small chiller units to large institutional HVAC systems

TRANSPORTATION



Transition joints in rail cars and ship building

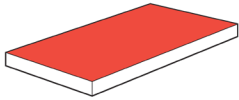
DETA CLAD™ RANGE OF CAPABILITIES

Customers rely on DetaClad™ plates for reliable flat, cylindrical and custom-shaped applications such as clad heads, tube sheets, large plates and cylinders. DetaClad plates and cylinders, available in 260 compatible and non-compatible metal combinations, are the foundation of global pressure vessel, coke drum, tower and crystalliser equipment. NobelClad transition joints are used to permanently weld metals without mechanical fasteners and to join electrical connections.

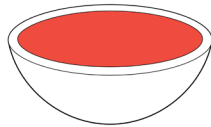
DetaPipe™ reactive metal pipe spools and elbows are also available for piping systems high-pressure, high-temperature processes. This new technology allows for end users to benefit from corrosion resistance performance and process safety.

- Cladding thickness: 1 to 50 mm
- Base thickness: 1 to 1,000 mm
- Width: 5 m max
- Length: 15 m max
- Weight: 50 tons max
- Cladders: zirconium alloys, titanium alloys, stainless steels, duplex stainless steels, tantalum, niobium, nickel alloys, copper-nickel alloys, brass
- Backers: carbon steels, stainless steels and low alloy steels

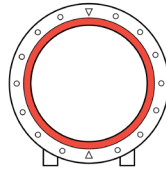
PLATES



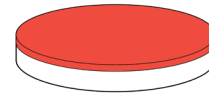
HEADS



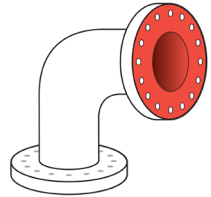
SHELLS



TUBE SHEETS



DETA PIPE™



Left to right:
POX Autoclave,
PTA Heat
Exchanger



Left to right:
316L Reactor,
DetaPipe™
Reactive Metal
Pipe Spool