

Reliability in DetaClad™, Service You Can Count On

ADVANTAGES OF DETACLAD™

NobelClad uses its explosion welding process to manufacture DetaClad™ plates and heads for the production of oil and gas and chemical process equipment. Learn about our significant advantages over other suppliers and product.

01 Large clad plates for head forming up to 5000 mm wide

- Larger clad plates allow end users to manufacture seamless heads or heads with fewer seam welds
- Reduce the hassles of crown and petal to save an average of 15 – 20% on material and time for making head

02 Large clad plates for vessel shells up to 4000 mm wide

- Larger shell plates reduce circumferential welding thereby lowering costs and enhancing equipment reliability
- **NOTE:** Maximum plate weight is restricted to 33 MT

03 Variable plate dimensions

- To help customers reduce waste, orders can include plates with varying width for the same pressure vessel

04 Easy welding of internals

- Direct attach on DetaClad™ is the qualified alternative for welding internals on the clad surface

05 Maximum shear strength*

- DetaClad™ achieves the highest bond shear strength
- With this high shear strength, fabricators can directly weld internals on the clad plates which results in saving time and cost of fabrication

06 Corrosion resistance

- DetaClad™ ensures that the corrosion resistance of the clad layer is not affected by the bonding process



**Please find enclosed data sheet which highlights bond shear strength with respect to code*

CUSTOMER SPOTLIGHT

NobelClad has supplied 4,650 mm wide plates to manufacture seamless heads

07 Flexible order quantities

- No minimum order quantity required
- Even number of plates per order is not required, companies can order exact quantities of plates as needed
- When quantity is small, NobelClad provides clad plates by procuring raw material from stock to offer fast delivery

08 Stock

- NobelClad maintains strategic stock of materials such as Nickel alloys and Titanium which provides end users with improved lead times for critical projects

09 Ultrasonic testing (UT) as a standard offering

- DetaClad™ products are scanned for 100% area with 10% overlap on automatic recordable UT machine
- UT inspection is provided without manual intervention or mistakes due to operator-to-operator variability

10 UT operator

- All NobelClad plants maintain ASNT NDT Level II certified inspectors

11 Welding of clad

- All NobelClad plants are equipped with in-house welding equipment and operators
- Welding Procedure Specifications (WPS) and Procedure Qualification Records (PQR) are maintained for consistent quality

12 Service

- For large projects, NobelClad can supply plates from either global plant to meet the project deadlines

13 Infrastructure

- NobelClad is the only explosion bond manufacturer with an R&D center for the development of clad
- NobelClad personnel can speak English and select other languages
- Customers rely on our global metallurgists and welding engineers to support project needs
- Plates are produced per our internal standard DMC100, this ensures product exceeds code requirement
- NobelClad plants are fully integrated to carry our explosion clad plates with tight control on quality and reliability



Liebenscheid, Germany manufacturing plant



Global recognition from Dillinger, Middle East



Ultrasonic testing of clad plate