

# 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*