BI-METALLIC PLATES

YOUR SUPPLY CHAIN PARTNER
NOBELCLAD BI-METALLIC PLATES

For more than five decades, the world has relied on NobelClad’s leadership and service in supplying trusted dissimilar metal solutions to help solve demanding problems for the world’s industrial infrastructure. NobelClad bi-metallic plates are available in a wide array of compatible and non-compatible metals; with more than 260 metal combinations possible.

To best serve the changing needs of fabricators and end users with whom we work, NobelClad continues to make critical investments. With new strategic partnerships, we added new composite metal capabilities such as roll bonding and weld overlay to our explosion welding offerings. While there are different advantages to using one multi-metal welding process over the other, NobelClad’s expertise can help you determine the best clad process and solution.

WELDING DISSIMILAR METALS

Welding techniques are defined by material combination, size and fabricated application. Both explosion welding and roll bonding can guarantee:

- Solid state welding processes
- Metallurgical bond
- High mechanical strength
- Electrical conductivity
- Thermal conductivity
- Prevention of galvanic corrosion
- Weight savings
PLATE PRODUCTS

NobelClad plates come in all shapes and sizes. Components can be formed into small, precise shapes or they can come in large plates, heads or tube sheets. No matter the geometry, the material won’t disbond while maintaining the mechanical properties of the composite material. These product offerings make NobelClad invaluable to complex design challenges.

TYPICAL APPLICATIONS

Below are a few examples of applications that use clad across a wide range of industries:

- Towers
- Coke Drums
- Hydrocrackers
- Crystalisers
- Rail Car Transition Joint
- Autoclaves
- Ship Building Components
- Molten Salt Separators
- Pressure Vessels
- Electrical Transition Joints
- Scrubbers
- Nuclear Components
- Evaporators
- Heat Exchangers