Information Technology

Solutions

How it Works

The roll bonding process uses high pressure to form a metallurgical bond between two or more metals. The roll bonding process uses high pressure to form a metallurgical bond between two or more metals. The roll bonding process uses high pressure to form a metallurgical bond between two or more metals. The roll bonding process uses high pressure to form a metallurgical bond between two or more metals. The roll bonding process uses high pressure to form a metallurgical bond between two or more metals. The roll bonding process uses high pressure to form a metallurgical bond between two or more metals. The roll bonding process uses high pressure to form a metallurgical bond between two or more metals. The roll bonding process uses high pressure to form a metallurgical bond between two or more metals. The roll bonding process uses high pressure to form a metallurgical bond between two or more metals. The roll bonding process uses high pressure to form a metallurgical bond between two or more metals. The roll bonding process uses high pressure to form a metallurgical bond between two or more metals. The roll bonding process uses high pressure to form a metallurgical bond between two or more metals. The roll bonding process uses high pressure to form a metallurgical bond between two or more metals. The roll bonding process uses high pressure to form a metallurgical bond between two or more metals.

What is roll bonding?

Roll bonding is a solid state welding process in which two or more metals are passed through a pair of rollers. The immense pressure creates a permanent metallurgical bond between dissimilar metals.

What is a metallurgical bond?

A metallurgical bond is a permanent bond of metals characterized by diffusion, alloying, or intermolecular attraction caused by high pressure. This allows dissimilar metals to bond together as one. The resulting bond is stronger than the weaker material and has no thermal or electrical resistance.

About Spur

Based in Spokane, Washington, Spur Industries is an industry leader in the world of clad metals and roll bonding. We specialize in aluminum alloys but our experience with numerous other materials is extensive. Our 40+ years of experience gives us the knowledge and expertise to create personalized solutions for even the most demanding applications.

Contact Info

Spur Industries Inc.
17404 E. Euclid Avenue
Spokane, WA 99216 USA
(509) 924-2800

Visit Our Website: www.spurind.com
Standard Weld Rings

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• 120+MPa Strength
• Short lead-times
• Waterjet finish
• Custom versions available

Machined Fittings

• Clad material
  • 3003 Aluminum is standard
  • Other materials available
• Base material
  • 304/304L Stainless steel is standard
  • Other materials supported
• Precision CNC tolerances
  • Standard tolerance +/- .005in
  • Precision tolerance < .002in
• No minimum quantity

Testing

• 90 Degree bend test – standard
• Ultrasound scanning
• Burst pressure
• Helium leak

Welding

• Do not exceed 750˚F at the bond line
• Preferably weld aluminum side first
• Custom weld services available

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