Welding Journal Technical Article Recommends NicroBlast® Grit for Improving the Wetting Action of a Brazing Filler Metal on a Nickel Superalloy Substrate

NicroBlast grit prepares and enhances base metal surfaces to improve brazing filler metal flow and wettability through tight joints during high temperature brazing processes.

(PRWEB) December 5, 2003 -- An October 2003 Welding Journal technical article concludes that Wall Colmonoy’s NicroBlast grit provides the best prepared base metal surface for effective wetting and flow of a brazing filler metal (Nicrobraz LM) on a nickel superalloy substrate (IN718). The different blasting media used in the study were aluminum oxide, silicon carbide, and NicroBlast grit. This study confirms what Wall Colmonoy has been recommending for years, NicroBlast grit prepares and enhances base metal surfaces to improve brazing filler metal flow and wettability through tight joints during high temperature brazing processes.

NicroBlast grit is a specially formulated nickel-chromium-iron blasting grit that is used to mildly abrade and work base metal surfaces to produce a uniform matte finish that minimizes surface tension and promotes multi-directional flow of brazing filler metal, particularly nickel-based filler metals. The result it increased joint fill.

Nicrobraz brazing filler metals are designed to wet the surface and bond the substrates. Wetting, which enhances the flow, is the ability of the filler metal to spread on the base metal. Wetting is measured by the angle of contact point between the base metal and liquid that is supposed to wet it.

Wall Colmonoy Corporation manufactures nickel-base hard-surfacing alloys for wear-resistant coatings and brazing filler metals for joining metals. Headquartered in Madison Heights, Michigan, Wall Colmonoy has affiliates in Canada, the U.K. and France. To learn more about the company and its products and services, visit its website at www.wallcolmonoy.com


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