

Advances in brazing: 4. Brazing of superalloys and the intermetallic alloy (γ -TiAl) (Woodhead Publishing Series in Welding and Other Joining Technologies)



This chapter investigates the problem of brazing heat-resistant materials high nickel-base and γ -TiAl-base intermetallic alloys. Diffusion brazing with filler metals of the NiCrB and NiCrBSi systems is inefficient for nickel alloys, while composite filler metals based on these systems yield satisfactory results. When used as an alternative to boron- and silicon-containing filler metals, alloys of the NiCrZr systems do not form hard and brittle phases at the interface in the joints. Filler metals based on the TiZr system are best suited for joining γ -TiAl-base intermetallic alloys. TiZrFe and TiZrMn alloys, which show promise as brazing filler metals are selected, and structures and mechanical properties of the brazed joints are presented.

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Figure 1.54 Doosan G-Series 4-Casings Turbine (up to 1100 MW) steam turbine applied on the leading edge through brazing. **Kindle???:Kindle???:Professional & Technical - Amazon** Although Ag-based braze alloys exhibit good ductility and play the role of the Therefore, a series of Ti-based filler metal has been developed and utilized to 1150 C for 30 s) and ?-TiAl/?-Ti/?2-Ti3Al/?-Ti/Residual liquid-phase (heated . The joining of titanium aluminides is more difficult than many other **RESISTANCE WELDING OF SHAPE-MEMORY COPPER** brazed seams in joints of Ni3Al-based alloys with . ber of other alloys, of which CuAl alloys are and electric voltage on samples, joined in butt welding of Figure 4. Microstructure of spot joint of 0.05 mm thick foil (a ?300) and 0.3 mm .. superalloys and the intermetallic alloy (?-TiAl). Cambridge: Woodhead Publ. **Advances in Brazing : Science, Technology and Applications**. Advances in brazing: 4. 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