

Comparison of Mechanical Property of UNS C12200 Joints Brazed by (Cu&Ag) Based Filler Metals

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Abstract : In this study the copper tube which used in medical applications was brazed by Copper, Zinc and Silver alloys, using BCuP2, RBCuZnAl and BAg2 filler metals. The sample of the medical tubes was chemically analyzed and the result matches the British standard. Tensile and hardness tests were carried out for brazed joints, and the tensile test results show that the BCuP2 has the hardest and the filler metal RBCuZnAl has the highest tensile strength.

Keywords : welding, Brazing, Copper tubes, Joints

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