

Technical data

Silver brazing filler metal

Argo-braze™ 562 – Silver brazing filler metal

Product description

Argo-braze™ 562 is a specialised, cadmium free, zinc free silver brazing filler metal. Thus it has been used for furnace brazing operations where the evolution of zinc fume would not be acceptable. Its principle use is for the fluxless brazing of stainless steel in dry, high hydrogen content reducing atmospheres. Joints brazed with Argo-braze™ 562 exhibit good elevated temperature properties up to 425°C.

Argo-braze™ 562 has a long and high melting range and produces large fillets. It is consequently prone to liquate (separate into low and high melting constituents) if it is heated slowly through its melting range. For this reason rapid heating methods should be employed wherever possible.

Composition: 56% Ag, 42%Cu, 2%Ni

Conforms to: AWS A5.8 Bag-13a, AMS 4765, ISO 17672:2010 Ag 456

Melting range: 770-895 °C

Uses for this product

Argo-braze™ 562 is used for flux less reducing atmosphere brazing or vacuum brazing of ferrous and non-ferrous metals, particularly stainless steel joints that will be expected to work under elevated temperature service conditions such as aerospace components.

Conditions for use

This product can be used for flux-less brazing in a hydrogen based reducing atmosphere or in vacuum. Flux may be required to promote satisfactory filler metal wetting in hydrogen based reducing atmospheres that are not sufficiently dry. When vacuum brazing a partial pressure brazing technique should be used to suppress vaporisation of the silver within the alloy.

If used for brazing in air it should be used in conjunction with a high temperature flux such as Tenacity™ No. 5 Flux or Tenacity™ No. 125 Flux. A rapid heating method such as induction heating is recommended to avoid the problems of liquation.

Product availability

Manufactured to order only.

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Johnson Matthey PLC, Platinum Group Metal Services, Orchard Road, Royston, Herts, SG8 5HE, UK Rev.27/01/25.

