



Argo-braze™ 60 / 60V – Silver Brazing Filler Metal

Argo-braze™ 60 is a specialised cadmium free and zinc free silver brazing filler metal which makes it suitable for flux-less brazing in reducing or inert gas atmospheres as well as vacuum.

This filler metal is also available as vacuum tube grade material with low and controlled levels of volatile impurities in which case it is designated Argo-braze™ 60V.

Being zinc free the alloy is suitable for the brazing of components in applications where dezincification of zinc containing filler metals might occur, such as exposure to salt water.

The tin content of this filler metal depresses the melting temperature and improves its wetting on ferrous parent metals over the silver-copper filler metal Argo-braze™ 72V. It is, however, 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.

Joint gaps should be between 0.075mm and 0.2mm at brazing temperature.

This filler metal was formerly called RTSN™.

Composition:	60%Ag, 30%Cu, 10%Sn
Conforms to:	ISO 17672:2010 Ag 160, AWS A5.8 BAg-18 / BVAg-18, SAE AMS 4773, ASME Boiler and Pressure Vessel Code SFA5.8 BAg-18
Melting range:	600-730°C

Uses for This Product

This alloy is not widely used in Europe. It has been used for a variety of special 'niche' applications such as brazing of seals on vacuum tube components.

Conditions for Use

Can be used under suitable conditions for brazing a wide range of parent materials under atmosphere (reducing or inter gas) or vacuum. When vacuum brazing a partial pressure brazing technique should be used to prevent vaporisation of the silver within the alloy. It can also be used for brazing in air in conjunction with a suitable flux. A rapid heating method such as induction or fixed burner heating is recommended to avoid the problems of liquation.

Product Availability

Special order only.

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