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## Silver-flo™ 40 - Cadmium Free Silver Brazing Filler Metal

Silver-flo<sup>™</sup> 40 is a very widely used cadmium free silver brazing filler metal. It offers a combination of medium melting temperature and flow characteristics. It can be used to fill gaps that cannot be tightly controlled. These properties make it a popular choice as an alternative to the higher silver content Silver-flo<sup>™</sup> filler metals (Silver-flo<sup>™</sup> 55 and 56). Silver-flo<sup>™</sup> 40 is widely used as a general purpose silver brazing filler metal as well as in joining copper to steel in refrigeration pipe work.

It should be noted that this filler metal contains tin and may be described as being 'hot-short'. It should not be quenched from high temperatures (in excess of 300°C) and care should be taken when it is used to braze components with widely differing coefficients of thermal expansion as in both cases cracking of the joints may occur.

Optimum joint gaps at brazing temperature are 0.075-0.2mm.

**Composition:** 40%Ag, 30%Cu, 28%Zn, 2%Sn

Conforms to: ISO 17672:2010 Ag 140, AWS A5.8 BAg-28, formerly EN1044 1999 AG105

Melting range: 660-710°C

## **Uses for This Product**

Silver-flo<sup>™</sup> 40 can be used to join most common engineering metals - copper, copper alloys including, brasses, bronzes, gun metal, nickel silver, aluminium bronze, copper nickel, steels including, mild, carbon, tool steel, stainless steels, low alloy steel. This alloy is not normally recommended for brazing tungsten carbide and PCD segments where lower melting or nickel / manganese containing silver brazing filler metals are often preferred.

## **Conditions for Use**

This filler metal is mainly used for brazing in air with a flux. In most cases Easy-flo™ Flux can be used in conjunction with Silver-flo™ 40. However, flux selection is application dependent. Please refer to Johnson Matthey technical department or flux product datasheets before selecting a flux.

## **Product Availability**

Rod 1.5mm, 2mm, 2.5mm, 3mm

Flux Coated Rod 1.5mm, 2mm Wire 0.75mm, 0.8mm

Strip 3 x 1mm, 1.5 x 1mm, 3 x 1.5mm

Foil 20 x 0.15mm Braze-pastes On request

Telephone: +44 (0) 1763 253200

Others Rings, Preformed Shapes

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