

Technical data

Silver brazing filler metal

Silver-flo™ 44 – Cadmium free silver brazing filler metal

Product description

Silver-flo™ 44 is a cadmium free silver brazing filler metal. It exhibits moderate brazing characteristics being a reasonable gap filling and fillet forming alloy.

This alloy is suitable for seawater applications where it is resistant to dezincification. Silver-flo™ 44 has been used in the European shipbuilding industry and in marine applications where the brazed joints have excellent mechanical properties.

The optimum joint gap for this alloy at brazing temperature is normally 0.075-0.2mm.

Composition: 44%Ag, 30%Cu, 26%Zn

Conforms to: EN 1044 1999 AG203, ISO 17672:2010 Ag 244

Melting range: 675-735 °C

Uses for this product

This filler metal can be used to join all the common engineering materials (excluding aluminium) – such as copper, copper alloys (including, brasses, bronzes, gun metal, nickel silvers, aluminium bronze, copper nickel) and steel (including, mild, carbon, tool steel, stainless steels and low alloy steel).

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™ 44. However, flux selection is application dependent. Please refer to JM technical department or flux product datasheets before selecting a flux.

Product availability

Rod	On request
Flux coated rod	On request
Wire	On request
Strip	On request
Foil	On request
Braze-pastes	On request
Others	Rings, Preformed shapes

Johnson Matthey Plc cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products will be used. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is given in good faith, being based on the latest information available to Johnson Matthey Plc and is, to the best of Johnson Matthey Plc's knowledge and belief, accurate and reliable at the time of preparation. However, no representation, warranty or guarantee is made as to the accuracy or completeness of the information and Johnson Matthey Plc assumes no responsibility therefore and disclaims any liability for any loss, damage or injury howsoever arising (including in respect of any claim brought by any third party) incurred using this information.

The product is supplied on the condition that the user accepts responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. Freedom from patent or any other proprietary rights of any third party must not be assumed. The text and images on this document are Copyright and property of Johnson Matthey. This datasheet may only be reproduced as information, for use with or for resale of Johnson Matthey products. The JM logo®, Johnson Matthey name® and product names referred to in this document are trademarks of Johnson Matthey. Easy-flo® and Silver-flo® are registered to JM in the EU. Sil-fos™ is registered to JM in the UK and certain other countries but is marketed as Mattiphos™ in Germany and the USA.

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

