

TECHNICAL DATA SHEET 270

Specifications:

Alloy	Working Temperature (°C)	NF EN ISO 17672 (2016-11)	AWS A-5.8	DIN 8513	ISO 3677	AMS
Ag-Cu-Zn-Sn	650	Ag 156Si	BAG-7	-	B-Ag56CuZnSn(Si)-620/655	4763A

Characteristics:

BRAZARGENT 5056 is a widely used Cd free alloy which main elements are: Copper, Zinc, high Silver (56%) and Tin contents (5%). Silver and Tin contents lowers the melting point, increases fluidity and exhibits good wetting properties. Its excellent fluidity makes it suitable in closely fitting joints as able to penetrate very tight gaps. This Brazargent 5056 alloy offers very good performance in terms of operating, and makes it suited for delicate assemblies with tight clearances when operating temperature have to be lower as possible. This alloy offers good mechanical properties and corrosion resistance.

The rods are available in bare rods (to be used with our AGFLUX/ Paste, in Coated rods (**AGFLUX or HP flux**) and also available in **TBW** (Tubular Brazing Wire). This technology (Flux inside) offers a great efficiency in terms of application and control to metal/flux ratio (12% +/- 2).

Applications:

BRAZARGENT 5056 can be used for brazing any Steels, Copper and copper based alloys, stainless steels, as well for Nickel and Nickel based alloys. Can be used for brazing with flame or induction brazing procedures (except coated forms and Oven).

Typical applications are found e.g. in HVAC, automotive, food and sanitary, electric industry, household and healthcare sectors. Operating temperature for brazed joint is approx. -200°C to +200°C (without loss in strength).

Typical Chemical Compositions (%):

Ag	Cu	Zn	Sn	Al	Bi	Cd	Si*	P	Pb	Max impurities
56.00	22.00	17.00	4.90	<0.001	<0.03	<0.01	0.10	<0.008	<0.025	<0.15

Typical Physical Properties:





Colour	Solidus (°C)	Liquidus (°C)	Density g/cm ³	Elongation %	Tensile strength (MPa)	Electrical Conductivity (%IACS)	Electrical Resistivity (Micro-ohm-cm)
Silver - Yellow	620	655	9.5	18%	470	20.70	8.3

Ag 156Si*: A small amount of Silicon (~0.1%) is added to the melting in order to improve stability of the alloy and brazability (no sparkling effect).

Properties of Brazed Joint:

The properties of a brazed joint dependent upon numerous factors including base metal properties, joint design, metallurgical interactions between the base metal and the filler metal.

Standard Size, Types and Heat Source Recommendations:

Size Ø x 500 (mm)	Type					 OXY/ACÉTYLÈNE	 INDUCTION	 AÉRO-PROPANE	 FOUR/OVEN
	Bare	Coated	TBW	Coil/Spool	Preforms				
Ø 1.5 to 3.0	√	√	√	√	√	Bare	√	√	√
						Coated	√	X	√
Ø 0.7 to 3.0						TBW	√	√	√

Customised sizes other than above standard dimensions are solicited case to case basis

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