

BRAZARGENT 5030

(Bare rods/ Coated rods)

Cadmium Free Silver (30%) Brazing Alloy

TECHNICAL DATA SHEET 235

Specifications:						
Alloy	Working	NF EN ISO 17672	AWS A-5.8	DIN 8513	ISO 3677	AMS
	Temperature (°C)	(2016-11)				
Ag-Cu-Zn-Sn	740	Ag 130Si	-	-	B-Cu36ZnAgSn(Si)-665/755	-
01 4 1 41						

Characteristics:

BRAZARGENT 5030 is a Cd free alloy which main elements are: Copper, Zinc, Silver (30%) and Tin. 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 tight and medium gaps. This alloy offers very good performance in terms of operating, and makes it suited for delicate assemblies with tight clearances. This alloy offers good mechanical properties and corrosion resistance.

The rods are available in bare rods to be used with ours (AGFLUX), or in coated rods (AGFLUX HP).

Applications:

BRAZARGENT 5030 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 procedure (except coated forms).

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

Typical Ch	Typical Chemical Compositions (%):											
Ag	Cu	Zn	Sn	Al		Bi	Cd Si*		Р	Pb	Max impurities	
30.00	36.00	31.50	2.30	<0.00	1	< 0.03	<0.01	0.10	<0.008	<0.025	<0.15	
Typical Ph	Typical Physical Properties:											
Colour	Solidus (°C)		iquidus Density (°C) g/cm³		Ш	ilongation %	Tensile strength (MPa)		Electrical Conductivity (%IACS)		Electrical Resistivity (Micro-ohm-cm)	
Silver - Yellow	665	75	55	8.80		18 %	50	00		-	-	

Ag 130Si *: A small amount of Silicon (~0.1%) is added during 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.

5	Standard Size, Types and Heat Source Recommendations:										
	Size Ø x 500		Туре						000	*	••••
	(mm)	Bare	Coated	TBW	Coil/Spool	Preforms		OXY/ACETYLÈNE	INDUCTION	AÉRO-PROPANE	FOUR/OVEN
Ī	Ø 1.5 to 3.0	2/	ما	v	2/	ما	Bare				
	Ø 1.5 to 5.0	V	V	^	ı V	٧	Coated		Х		

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

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