TECHNICAL DATA SHEET

SILVALLOY 105

Brazing alloys, Cadmium Free

EN ISO 17672:2016	-
AWS A5.8-92	
ISO 3677:1997	B-Ag100 - 960
DIN 8513	-
(EN 1044:1999)	-

Nominal Composition [%]

Ag	Cu	Zn	Sn	Si	Mn	Ni
99,99	-	-	-	-	-	0,01 -

Technical Data

Melting Point	960° C
Working Temperature	1000 - 1050° C
Density	10,5
Tensile strength	300-380
Elongation	
Electrycal Conductivity	- m/? mm²
Operating temp. of brazed joint	

Applications

Silvalloy 105 is characterized by a single melting point at 960°C; it is widely used as a semiconductor in various electrical, electronic and industrial applications such as contacts, fuse elements, etc., due to its high thermal power and its electrical conductivity.
However, it can also be used in brazing processes due to its excellent ductility and its good resistance to oxidation and corrosive attack.
Silvalloy 105 is also used in the brazing processes of metallized ceramics in reducing or inert atmospheres or under vacuum.

Suggested Flux

Base Metals

Non-ferrous metals, with the exception of aluminum and its alloys

Heat Sources

Flame, induction, resistance, Vacuum and inert atmosphere (H, Ar, He, N)

Bare rods	Fluxcoated	Wire < Ø 1,0	Wire > Ø 1,0	Foil	Preforms	Paste
[-]	[-]	[X]	[X]	[X]	[X]	[X]

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