TECHNICAL SHEET
CuSn8

Product name
CuSn8

Class of product
Cu alloy wire for MIG and TIG welding and surfacing

Corresponding standards

ISO 24373	Cu 5210 CuSn8P
DIN 1733	SG-CuSn6
Werkstoff nr.	2.1022
BS 2901 P.3	C 11
AWS A5.7	ER CuSn-C

Nominal composition (weight %)

Cu:	balance
Sn:	7,60 – 8,00
P:	0,05 – 0,10
Others:	0,5 max

Physical and technical properties

Melting range:	875 – 1.025 °C
Density:	8,8 g/cm^3
Thermal conductivity:	67 W/m·K
Coeff. of linear mean expansion (20-300°C):	18,5 · 10^{-6} 1/K
Electric conductivity:	6 - 8 m/Ω·mm^2
Resistivity:	0,125 – 0,167 Ω·mm^2/mm

Mechanical properties of welded joint (not treated, standard data)

Tensile strength:	260 N/mm^2
Elongation	20 %
Brinell Hardness	80 HB 2,5/62,5
Notched bar impact test	32 Av (J)

Applicable inert gas
Argon 4.8/5.0/5.3/5.6/6.0

Range of application
Build-up and join welding of Cu/Sn alloys, of Cu/Sn/Zn/Pb cast alloys and of cast iron.
Suitable for repair welding of bearings and for joining of galvanized steels.
Preferred for furnace brazing, with good deoxidant effect.
High hardness value of build-ups.

Characteristics make-up
Rods & Wires

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