

Tin Brass

Ms60SnFe (RBCuZn-C)

Material Designation*

AWS	RBCuZn-C
EN	CuZn40Fe1Sn1 (Cu 6810)
JIS	/
GB	SCu6810

Chemical Composition

Cu	56.0-60.0	%
Zn	Balance	%
Fe	0.25-1.20	%
Sn	0.80-1.10	%
Si	0.04-0.15	%
Mn	0.01-0.50	%



Characteristics

It is a special brass welding wire containing a small amount of iron, tin, silicon, manganese and other elements. It has good fluidity and can effectively control the evaporation of zinc, which eliminates the porosity, and thus obtain good welding seam.

Typical Applications

It is widely used in brazing steel, copper nickel alloy, cast iron and also used for inlaid carbide cutting tools.

Physical Properties

Density ^①	8.4	g/cm ³
Melting point	860	°C
Thermal conductivity ^①	120	W/m·K
Coefficient of thermal expansion ^②	21.2	10 ⁻⁶ /K
Electrical conductivity ^①	24	%IACS

Note①: Temperature for testing is 20°C.

Note②: Temperature range for testing is 20-300°C.

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Delivery Form

	Packing	Size(ODxDxHeight)	Weight/Length	Diameter
			kg/mm	mm
Spool	D200 (Plastic spool)	$\Phi 200 \times \Phi 52 \times 55$	5.0	$0.8 \leq \Phi \leq 1.6$
	D300 (Plastic spool)	$\Phi 300 \times \Phi 52 \times 100$	12.5	$0.8 \leq \Phi \leq 1.6$
	BS300 (Galvanized steel spool)	$\Phi 300 \times \Phi 52 \times 100$	12.5	$0.8 \leq \Phi \leq 1.6$
Barrel	100kg (Barrel carton)	$\Phi 500 \times \Phi 305 \times 500$	100	$0.8 \leq \Phi \leq 1.2$
	200kg (Barrel carton)	$\Phi 500 \times \Phi 300 \times 750$	200	$0.8 \leq \Phi \leq 1.2$
	200kg (Barrel carton)	$\Phi 660 \times \Phi 440 \times 700$	200	$\Phi = 1.6$
Straight bar	Crate	--	250-3000mm	$1.6 \leq \Phi \leq 7.0$
Coil wire	Kraft/crate	--	10-200	$0.8 \leq \Phi \leq 7.0$

*Composition AWS
Other Physical Properties AWS

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