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

Density①	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.

bedra
intelligent wires

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Delivery Form

	Packing	Size(ODxIDxHeight)	Weight/Length	Diameter
			kg/mm	mm
Spool	D200（Plastic spool）	Φ200×Φ52×55	5.0	0.8≤Φ≤1.6
	D300（Plastic spool）	Φ300×Φ52×100	12.5	0.8≤Φ≤1.6
	BS300（Galvanized steel spool）	Φ300×Φ52×100	12.5	0.8≤Φ≤1.6
Barrel	100kg（Barrel carton）	Φ500×Φ305×500	100	0.8≤Φ≤1.2
	200kg（Barrel carton）	Φ500×Φ300×750	200	0.8≤Φ≤1.2
	200kg（Barrel carton）	Φ660×Φ440×700	200	Φ＝1.6
Straight bar	Crate	--	250-3000mm	1.6≤Φ≤7.0
Coil wire	Kraft/crate	--	10-200	0.8≤Φ≤7.0

*Composition AWS
Other Physical Properties AWS