Tin Brass

Ms60Sn0.5 (RBCuZn-A)

Material Designation*

AWS	RBCuZn-A
EN	CuZn40Sn (Cu 4700)
JIS	/
GB	SCu4700

Chemical Composition

Cu	57.0-61.0	%
Zn	Balance	%
Sn	0.25-1.0	%

Characteristics

It is a tin brass welding wire without silicon. The molten metal has good fluidity and it has certain strength and corrosion resistance. During welding, the danger of brittle joint caused by silicon in the interface between welding material and base metal steel can be completely avoided, and satisfactory mechanical properties can be obtained.

Typical Applications

It is suitable for flame brazing, induction brazing and furnace fiber welding of steel, copper and copper alloy, nickel and nickel alloy and stainless steel which have no high requirement for corrosion resistance.

Physical Properties

Density①	8.21	g/cm^3
Melting point	895	°C
Thermal conductivity①	/	W/m·K
Coefficient of thermal expansion②	/	10^{-6}/K
Electrical conductivity①	13.8	% 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(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

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