

Tin Brass

Ms60Ni (RBCuZn-B)

Material Designation *

AWS	RBCuZn-B
EN	CuZn40Ni (Cu 6800)
JIS	/
GB	SCu6800

Chemical Composition

Cu	56.0-60.0	%
Zn	Balance	%
Ni	0.20-0.80	%
Sn	0.80-1.10	%
Fe	0.25-1.2	%
Mn	0.01-0.5	%
Si	0.04-0.20	%



Characteristics

It is a brass welding material containing a small amount of iron, silicon and manganese. The fluidity of molten metal is good. Silicon can effectively control the evaporation of zinc, eliminating pores and thus obtain satisfactory mechanical properties.

Typical Applications

It can be used for welding of steel, cast iron, brass and bronze and oxyacetylene welding, and also used for bearings of mechanical parts and inlaid carbide tools.

Physical Properties

Density ^①	8.39	g/cm ³
Melting point	882	°C
Thermal conductivity ^①	/	W/m · K
Coefficient of thermal expansion ^②	/	10 ⁻⁶ /K
Electrical conductivity ^①	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(ODxDxHeight)	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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