

Qingdao Casting Quality Industrial Co., Ltd

Casting Material: Zinc Silicon Brass CuZn16Si4

CuZn16Si4 is silicon brass alloy, it has high tensile property and good corrosion resistance property.

CuZn16Si4 is defined in EN 1982. Cuzn16Si4 has two types: Cuzn16Si4-B (CB761S) and Cuzn16Si4-C (CC761S)

Reference Casting Standard:

EN 1982: Copper and copper alloys - Ingots and castings

Similar or Equivalent Specification

GB 1176 Grade ZCuZn16Si4

Cuzn16Si4-C(CC761S) Casting can be made by four casting processes:

Sand Casting

Investment Casting

Permanent Mold Casting

Continuous Casting (Centrifugal Casting).

Pressure Die Casting

CuZn16Si4 Chemical Composition Requirements:

Brass Grade			Chemical Composition/physical					%, max					
	Properties, %												
Grade	Number	Denomination	Al	Cu	Ni	Pb	Si	Zn	Fe	Mn	Р	Sb	Sn
CuZn16Si	CB761S	Ingots	0.10	78.5-82.0	1.0	0.6	3.0-5.0	Balance	0.5	0.2	0.02	0.05	0.25
4-B											1000		
CuZn16Si	CC761S	Casting	0.10	78. <mark>0-83.0</mark>	1.0	0.8	3.0-5.0	Balance	0.6	0.2	0.03	0.05	0.3
4-C				1.7		94						- 7	200

No Heat Treatment Requirement for CuZn16Si4 casting.

CuZn16Si4-C (CC761S) Casting Mechanical Properties in EN 1982

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生工工工	Brass G	rade	Brass Mechanical Properties							
Grade	EN	Casting Process	Tensile Strength	Yield Strength,	Elongation,	Hardness,				
	Number		MPa, min	MPa, min	% min	HBW, min				
Cuzn16Si4-C	CC761S	Sand Casting	400	230	10	100				
Million Co.		Permanent Mould Cast	500	300	8	130				
		Pressure Die Cast	500	340	5	190				
Track Hill		Centrifugal Casting	500	300	8	130				

CuZn16Si4-C (CC761S) Casting Typical Application:

it's well applied in sea water, and high pressure more than 4.5MPa and high temperature more than 250 °C, such as Bearing, Valve body, Pump Impeller, Pump Bowl, Pipe Fittings, Marine hardware, ship propeller.

What means of C and B or CC/CB Symbol in EN1982?

The material symbol designation is based on the designation system give in ISO 1190-14.

A suffix –B is added to the designation to identify material in the form of ingots, ingots begin with prefix CB, for example CuZn16Si4-B (CB761S). A suffix –C is added to the designation to identify material in the form of castings, castings begin with CC for example CuZn16Si4-C (CC761S)

Metal Castings Service in China

