



## CuZn39Sn1

Special Brass Alloy

Standardization:  
**Lead-Free / Special Brass Alloy**

### ALLOY DESCRIPTION

A pure high-ductility, lead-free brass (Special Brass) consisting solely of copper and zinc, possessing peak capabilities in cold forming and deep drawing.

### CHEMICAL COMPOSITION (% WEIGHT)

Fe (%)	Ni (%)	Cu (%)	Pb (%)	Sn (%)
max 0.1	max 0.2	59 - 61	max 0.2	0.5 - 1

### MECHANICAL PROPERTIES (MIN.)

Elongation (A)

18

Hardness (HB)

110

### PHYSICAL PROPERTIES

Density

8.40 [kg/dm<sup>3</sup>]

Melting Temperature

~900 - 920 [°C]

Elk. Conductivity

~14 - 16 [MS/m]

Elasticity Modulus

105 [kN/mm<sup>2</sup>]

### CASTING / MANUFACTURING METHODS

EK	Extrusion (Rod/Profile)
GS	sand casting
GM	Permanent mold casting
GZ	Centrifugal casting

### AREAS OF APPLICATION

Drinking Water Fittings

Deep-Drawn Parts

Cold Forged Bolts

Decorative Architecture

Automotive Tubes

### MACHINABILITY & CHARACTERISTICS

Exceptional cold forging and bending abilities. Highly preferred in drinking water systems because it contains no lead, ensuring ecological compliance. Offers great strength and aesthetic finish.

The technical information specified in this document reflects the standard reference values of international EN and DIN norms. Deviations may be observed depending on final production conditions.

**CORUM BRONZE**

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