

## 1. Product information / company information

### 1.1 Product information

**GB CuSn12S**  
DIN 17656  
Jewellery Bronze  
customer-specific

### 1.2 Supplier / ingot maker

**Wilhelm Grillo Handels-  
gesellschaft m.b.H.**

information and ingot maker:  
Metallschmelze Tattendorf, tel.: 0043 2253 72000  
www.grillo.at zentrale@grillo.at

## 2. Composition

metal				
copper	87 - 88	weight %	nickel	— < 90 ppm
tin	11,3 - 12,5	weight %	lead	— < 90 ppm
phosphor	0 - 0,1	weight %	cadmium, beryllium	— < 10 ppm
zinc	0 - 0,3	weight %		—

The copper-alloy is free of hazardous ingredients such as lead, nickel, cadmium and beryllium!  
**The material is conform with REACH and SW-CLEAR regulations!**

## 3. Physical and technical properties

	value	unit
boiling point / boiling range:	2550	°C
melting point / melting range:	950-1000	°C
recommended casting temperature:	1100-1150	°C
recommended mold temperature:	600-650	°C
hardness	110-120	Brinell
ingot weight	65 - 85 or 200-250	g
specific density	8.65	g/cm <sup>3</sup>
ingot dimensions	90 / 25 / 15 mm	or 25 / 25 / 15 mm

Recommended cooling time after casting  
before removing the mold 15 - 20 min

shape of ingot 1:1

