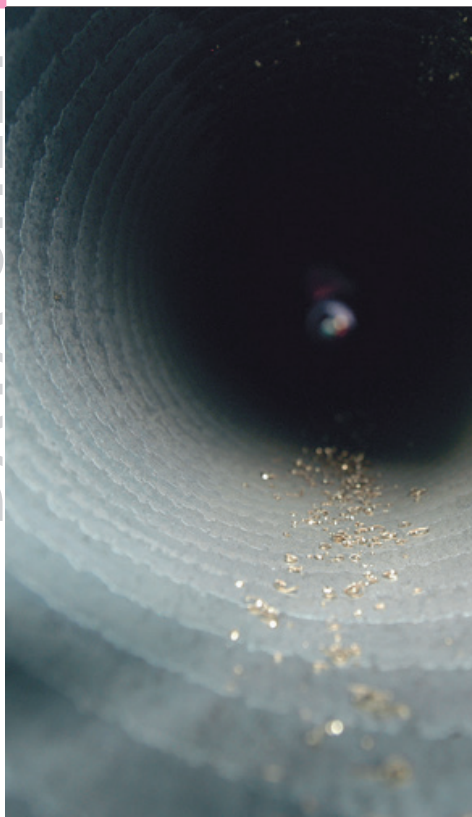


## Cast Tinbronze | Bars and Hollows

DATA SHEET



<b>Alloy</b>	CuSn12-C, CC483K
<b>Method of Manufacture</b>	GC, continuous cast
<b>Specification</b>	EN 1982
<b>Tolerance</b>	Round bars and Hollows: ≤ o.d. 97 mm: o.d. +0.6/-0 mm, i.d. -1/+0 mm o.d. 102-193 mm: o.d. +1/-0 mm, i.d. -1.5/+0 mm ≥ o.d. 202 mm: o.d. +2/-0 mm, i.d. -2/+0 mm  Flat and square bars: ≤ 103 mm width: +1 / -0 mm ≥ 113 mm width: +1 to 2 mm / -0 mm  guideline, deviations possible
<b>Temper</b>	GC
<b>Machinability</b>	moderate (due to sufficient lead content)
<b>Wear Resistance</b>	good
<b>Corrosion Resistance</b>	very good versus most media
<b>Sliding Properties</b>	very good
<b>REACH</b>	information obligations concerning the SVHC lead
<b>RoHS</b>	conformal

### Mechanical Properties

	Tensile strength $R_m$	Yield stress $R_{p0.2}$	Elongation A	Hardness HB
<b>GC</b>	≥ 300 N/mm <sup>2</sup>	≥ 150 N/mm <sup>2</sup>	≥ 6 %	≥ 90
<b>GZ</b>	≥ 280 N/mm <sup>2</sup>	≥ 150 N/mm <sup>2</sup>	≥ 5 %	≥ 90
<b>GM</b>	≥ 270 N/mm <sup>2</sup>	≥ 150 N/mm <sup>2</sup>	≥ 5 %	≥ 80
<b>GS</b>	≥ 260 N/mm <sup>2</sup>	≥ 140 N/mm <sup>2</sup>	≥ 7 %	≥ 80

Tough and hard material with good wear resistance, also suitable for high sliding speeds. Good corrosion resistance (even in seawater). Especially suitable for parts that have to bear surface pressures and impacts at the same time and are also subjected to friction wear. Resistant to cavitation stress. Highly stressed worm rims, cylinder inserts, gibs and slide bars. This alloy was used to develop CuSn11Pb2-C, which has improved dry-running properties and machinability.

Product with information obligations to REACH-Legislation

### Chemical Composition

Cu	85.0 - 89.0 %
Sn	10.5 - 13.0 %
Impurities, max.:	
Pb	0.7 %
Ni	2.0 %
P	0.60 %
Al	0.01 %
Fe	0.2 %
Mn	0.2 %
S	0.05 %
Sb	0.15 %
Si	0.01 %
Zn	0.5 %

### Comparable Specifications

CuSn12, 2.1052, DIN 1705 (SnBz12)
C 90800 UNS
PB2, BS 1400

Schreier Metall GmbH  
Bessemerstr. 17  
D-40699 Erkrath-Hochdahl  
Telefon +49 2104 1737-0  
Internet: [www.schreier-metall.de](http://www.schreier-metall.de)  
E-Mail: [sales@schreier-metall.de](mailto:sales@schreier-metall.de)