

# Wieland-G12 CuSn12-C-GC

## Slide Bearings

# Wieland

### Wieland-G12:

Hard and tough bearing alloy exhibiting good sliding properties and good resistance to wear. Heavy loads are possible with a hardened shaft. Excellent resistance to corrosion. Applications: Weaving machines, printing presses, worm gears.

### Composition (standard values)

Sn	11 %
Pb	0.7 %
Cu	balance

### Material designation

Wieland	G12
EN	1982 : 1998

### Physical properties

(standard values)

Density	[g/cm <sup>3</sup> ]	8.8
Coefficient of thermal expansion (20-300 °C)	[10 <sup>-6</sup> /K]	18.5
Thermal conductivity	[W/m · K]	55
Modulus of elasticity (20 °C)	[GPa]	95

### Max. load

Oscillating bearing up to 80 MPa

### Types available

Machined bushings

### Tube dimensions for machined bushings

Continuously cast  
OD up to 200 mm                      above please enquire

### Mechanical properties (standard values)

#### Temper

Hardness	[HB]	105
Tensile strength R <sub>m</sub>	[MPa]	350
0.2 %-proof stress R <sub>p0.2</sub>	[MPa]	230
Elongation A5	[%]	15

1 MPa = 1 N/mm<sup>2</sup>

# **Wieland**

---

Wieland-Werke AG  
D-89070 Ulm  
Phone: 7 31-944-0  
Fax: 7 31-944-28 71  
e-mail: [info@wieland.de](mailto:info@wieland.de)  
<http://www.wieland.com>

This leaflet is for your general information only and is not subject to revision. No claims can be derived from it unless there is evidence of intent or gross negligence. The data given are no warranty that the product is of a specified quality and they cannot replace expert advice or the customer's own tests.

0799Fd