



# SLIDING BEARINGS DIVISION

HYDRAULIC, ENERGY AND METAL INDUSTRY

## SB-03

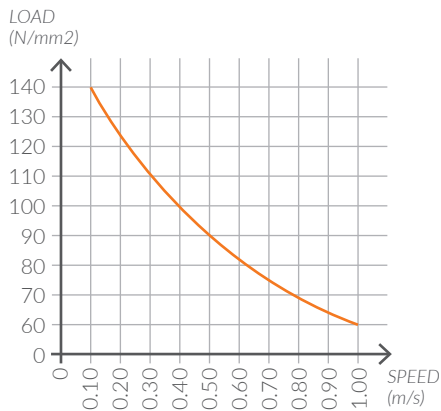
### Bronze CuSn6 + sintered bronze + PTFE compound

#### Supporting shell: Bronze CuSn6

<b>Cu</b>	rem	<b>Fe</b>	0.1% max
<b>Sn</b>	5.5-7.0%	<b>Ni</b>	0.2% max
<b>P</b>	0.01-0.4%	<b>Pb</b>	0.02% max
<b>Zn</b>	0.2% max		

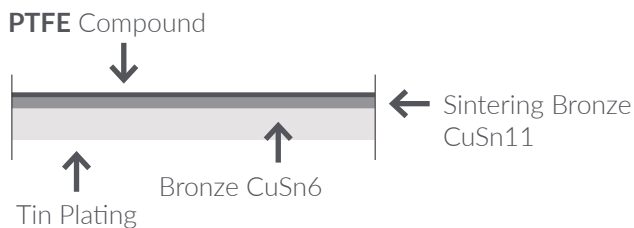
The given values are nominal values from literature.

#### GRAPHIC LOAD / SPEED



Remarks: for more detailed technical information on load/speed tests, please contact our offices.

#### BEARING SECTION



#### SLIDING LAYERS

PTFE (polytetrafluoroethylene) compound, colour Gray, thickness 20-40 µm, by high load capacity and self-lubricating under dry operation, NO LEAD in accordance to the European Parliament's ref: 2000/53/EC.

#### SINTERING

Intermediate layer CuSn11 Sintered 200 ÷ 350 µm (Average Peak)

#### MECHANICAL PROPERTIES

<b>WORKING TEMPERATURE</b>	min -200°C - max +280 °C
<b>COEFFICIENT OF FRICTION</b>	0.03-0.20
<b>MAX. SPEED</b>	dry: 2.50 m/s, oil: <10 m/s
<b>MAX. STATIC LOAD</b>	250 N/mm <sup>2</sup>
<b>MAX. DYNAMIC LOAD (max. speed 0.05 m/s)</b>	140 N/mm <sup>2</sup>
<b>MAX. DYNAMIC LOAD (max. speed 0.50 m/s)</b>	60 N/mm <sup>2</sup>
<b>PxV 3.6 max (N/mm<sup>2</sup> x m/s)</b>	admissible for short periods
<b>PxV 1.8 max (N/mm<sup>2</sup> x m/s)</b>	for continuous loads in dry use
<b>PxV 0.9 max (N/mm<sup>2</sup> x m/s)</b>	for alternating loads in dry use

#### SHAFT

Shaft surface finishing, for optimal performance, shall be between 0.4 and 0.8 µm Ra, depending on different application. Hardness minimum 180 HB5. The best materials for the production of the shaft, are tempered and hardened.

#### CHEMICAL RESISTANCE

<b>GASOLENE</b>	Excellent	<b>SODIUM HYDROXIDE</b>	Sufficient
<b>KEROSENE</b>	Excellent	<b>AMMONIA</b>	Sufficient
<b>DIESEL FUEL</b>	Excellent	<b>HYDROCHLORIC ACID 5%</b>	No resistance
<b>MINERAL OIL</b>	Excellent	<b>SULFURIC ACID 5%</b>	No resistance
<b>METHANE</b>	Excellent	<b>NITRIC ACID 5%</b>	No resistance
<b>SOLVENTS</b>	Good	<b>SEA WATER</b>	No resistance
<b>WATER</b>	Sufficient		

For the housing tolerances table please refer to our website or contact us. We can provide you detailed reports on the compatibility tests, performed by the Laboratory AQM S.r.l. in Brescia.

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