



SLIDING BEARINGS DIVISION

HYDRAULIC, ENERGY AND METAL INDUSTRY

SB-20

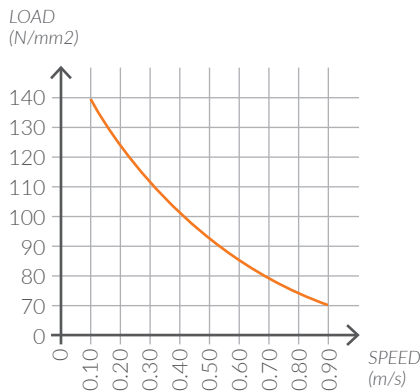
Carbon steel + sintered bronze + co-acetalic resin (POM)

Supporting shell: Carbon Steel

| | |
|-----------|--------|
| C | 0.080% |
| Mn | 0.30% |
| P | 0.030% |
| S | 0.030% |

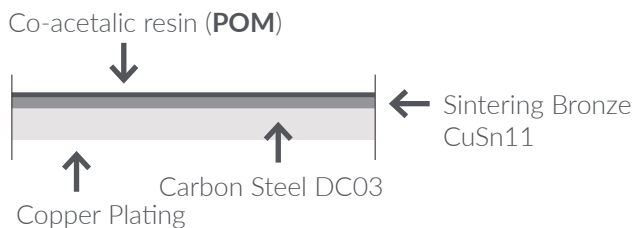
The given values are nominal values from literature.

GRAPHIC LOAD / SPEED



The values shown in the graph were determined with a test of constant load, and running for 1000 cycles at three different temperatures: -40 °C, +18 °C and +130 °C

BEARING SECTION



SLIDING LAYERS

POM, colour yellow or black. Thickness 30-50 µm. It provides high wear resistance and low friction even with a very little amount of lubricant. 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

| | |
|--|----------------------------------|
| WORKING TEMPERATURE | min -40°C - max +130 °C |
| COEFFICIENT OF FRICTION | 0.05-0.20 |
| MAX. SPEED | 2.0 m/s |
| MAX. STATIC LOAD | 250 N/mm ² |
| MAX. DYNAMIC LOAD (max. speed 2.0 m/s) | 70 N/mm ² |
| MAX. DYNAMIC LOAD (max. speed 0.50 m/s) | 60 N/mm ² |
| PxV 3.0 max (N/mm² x m/s) | admissible for short periods |
| PxV 1.5 max (N/mm² x m/s) | for continuous loads in oil use |
| PxV 0.7 max (N/mm² x m/s) | for alternating loads in oil 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

| | | | |
|--------------------|---------------|-----------------------------|---------------|
| GASOLENE | Excellent | SODIUM HYDROXIDE | No resistance |
| KEROSENE | Excellent | AMMONIA | No resistance |
| DIESEL FUEL | Excellent | HYDROCHLORIC ACID 5% | No resistance |
| MINERAL OIL | Excellent | SULFURIC ACID 5% | No resistance |
| METHANE | Excellent | NITRIC ACID 5% | No resistance |
| SOLVENTS | No resistance | SEA WATER | No resistance |
| WATER | 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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