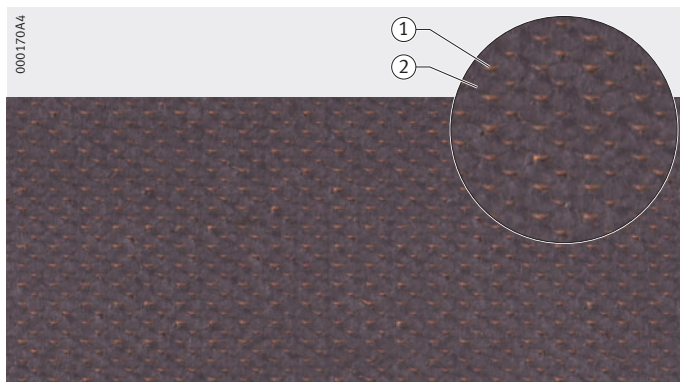


Maintenance-free plain bearing material E620

E620 is the new plain bearing material of Schaeffler Group Industrial for maintenance-free film bearings. The metal/polymer composite consists of a bronze rib mesh that is filled with a dry lubricant made from polytetrafluorethylene (PTFE) with embedded chemically non-reactive additives.

Structure The material consists of a rib mesh and a sliding layer, *Figure 1*.



- ① Rib mesh
- ② Sliding layer

Figure 1
Maintenance-free plain bearing material E620

The PTFE sliding layer is rolled into and sintered into the rib mesh. The mesh thus functions as both a carrier and a sliding layer.

Rib mesh and sliding layer

Chemical element	Proportion of mass w %	
	Rib mesh	Sliding layer
Tin Sn	6	–
Copper Cu	94	–
Polytetrafluorethylene PTFE	–	86
Fillers	–	14

Film thickness The plain bearing material is available in a film thickness of 0,5 mm.

Application

The lead-free material conforms to the regulations for lead-free plain bearings. It is maintenance-free throughout its life and can be used in the temperature range from –200 °C to +260 °C.

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