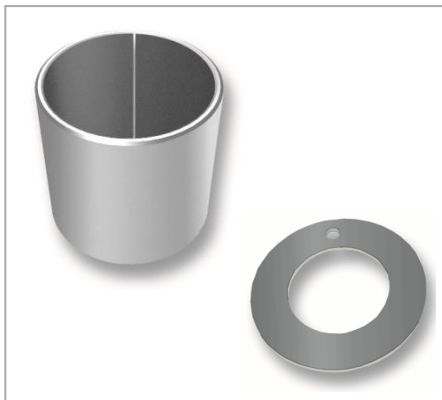


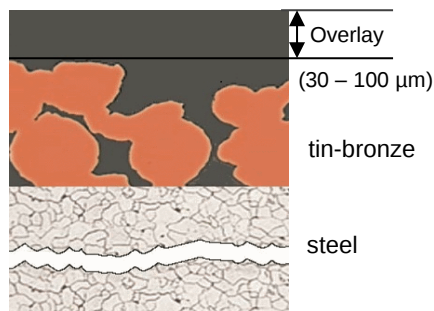
PFAS-free bearing material for dry and lubricated applications



Challenge:

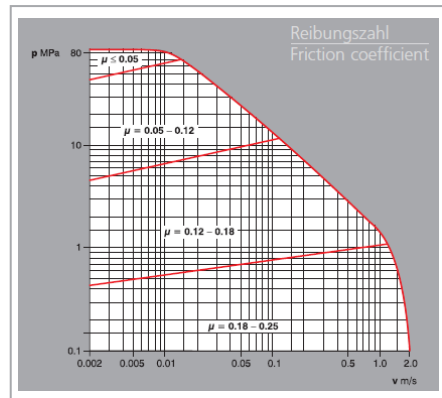
Many applications require a combination of good friction properties, a high wear resistance and a high load capacity at the same time. In addition, a **PFAS-free** material is desirable for regulatory and environmental reasons.

Microsection view of the 3-layer material



Solution:

GLYCO 692 is a **PFAS-free** sliding material suitable for dry running and (oil) lubricated applications. It is distinguished by good thermal endurance, a low coefficient of friction, a high load-carrying capacity and excellent wear resistance and is composed of constituents which pose no danger to health.



Key Features:

Thermoplastic based material for high load capacity and wear resistance under lubricated and non lubricated conditions.

Due to the material with friction reducing additives, GLYCO 692 has excellent friction properties and can be used in dry running and lubricated applications. Base material with universal properties used in a wide range of applications (automotive and industry), even in highly demanding applications.

Benefit	Details
High Load capacity	static: max. 250 MPa dynamic: max. 80 MPa
Low friction (unlubricated conditions)	Friction values depending on load and velocity, e.g.: for $p = 50 - 80 \text{ MPa}$ and $v = 0 - 0,02 \text{ m/s} \rightarrow \mu \leq 0,07$ for $p = 5,5 - 50 \text{ MPa}$ and $v = 0 - 0,1 \text{ m/s} \rightarrow \mu = 0,05 - 0,12$
Wide operating temperature range	-50 to +260° C

Additional Information

GLYCO 692 is a three-layer composite material. An open-pore tin-bronze sintered matrix, impregnated with a sliding material and a highly effective filler combination, is applied to a steel backing. A further, 30-100 µm thick overlay of the same sliding material is applied onto the filled bronze structure.

GLYCO 692 strip may be manufactured in thicknesses ranging from 0.70 mm to 3.09 mm. It may be supplied as strip, wrapped bushings, flange bushings and thrust washers.

Applications:
All kind of unlubricated as well as lubricated, e.g. pumps, transmission, shock absorber, etc.

Universal material used in many applications (automotive, industry, etc.)



Performance

Durability

Cost Reduction

Friction Reduction

Energy, Industrial & Transport

Enabling Technologies

