

High Performance Polymer Coating for Lubricated Application



TriboShield® TS650

TS650 is based on high-performance thermoplastics specifically designed for constant low friction from low to moderately high loads in lubricated conditions. Highly suitable for process fluid or water lubricated contacts. TS650 is part of the standard TriboShield® product range.

TYPICAL APPLICATIONS

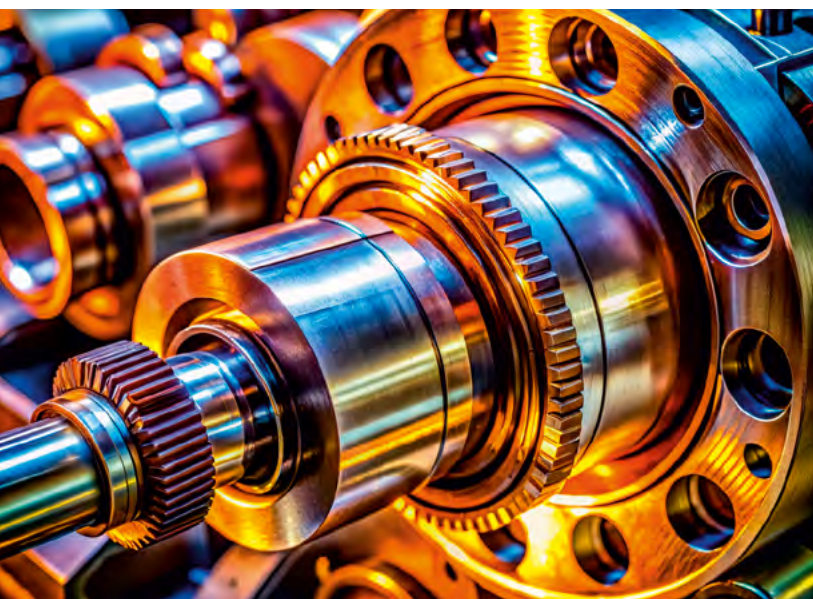
- Hydraulic pumps and motors
- Hydraulic cylinders
- Fluid valves
- Thrust surfaces in gearboxes

UNIQUE CHARACTERISTICS

- Excellent performance in lubricated conditions
- Excellent cavitation resistance
- Excellent wear resistance up to moderately high loads
- Good performance in contaminated environment

AVAILABILITY

TriboShield® coatings are applied directly to the customer's part and are suitable for complex geometries as well as various substrates e.g. steel, stainless steel, Al, Ti, Mg, etc. They can be used for both interacting surfaces that are in relative motion.



TECHNICAL DATA

COATING PROPERTY	UNIT	VALUE
Color*	-	Dark Grey
Standard thickness	µm	30
Maximum continuous service temperature	°C / °F	260 / 500
Maximum short-term peak temperature	°C / °F	280 / 536
Friction coefficient, typical range**	-	0.08 - 0.35
Food contact compliant	-	No

* Other colors possible upon customization request (limited)

** Dependent on contact pressure, sliding speed and contact geometry.

TRIBOMATE® UPGRADE AVAILABLE

Yes

TRIBOMATE® PAIRED COATINGS

For optimized performance in regard of

- significant reduction of friction in dry conditions
- improved wear life
- stable performance

we offer TriboMate® paired coatings which are specifically designed to work with and enhance the performance of our polymer coating products.

Pairing a TriboShield® coating with another TriboShield® coating solution or with a GGB bearing material, offers significantly reduced friction and can further extend system lifetime.

