

Low Friction Polymer Coating for Very High Load Applications



TriboShield® TS742

TS742 is based on latest generation high-performance thermoplastics, specifically developed for demanding and heavy-duty applications. Extreme load bearing capacity and low friction at moderate to high loads are some of its standout features. TS742 is part of the standard TriboShield® product range.

TYPICAL APPLICATIONS

- Highly loaded mechanisms
- Mechanisms requiring lifetime lubrication in dry or lubricated conditions
- Fretting prevention
- Harsh chemical environments
- Mechanical couplings, linear guides, struts, industrial chains, king pins

UNIQUE CHARACTERISTICS

- Extreme load bearing capacity
- Excellent wear resistance and sliding properties
- Very low friction in medium to high load conditions
- Anti-static

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	20
Maximum continuous service temperature	°C / °F	260 / 500
Maximum short-term peak temperature	°C / °F	270 / 518
Friction coefficient, typical range*	-	0.04 - 0.25
Food contact compliant	-	No

* 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.

