# Nanostructured Coatings for Low to Medium Loads

# TriboShield® TS225

TS225 is based on a nanostructured thermoset polymer designed for low friction and high wear resistance at low to medium loads in dry or lubricated conditions. TS225 is part of the standard TriboShield® product range.

## TYPICAL APPLICATIONS

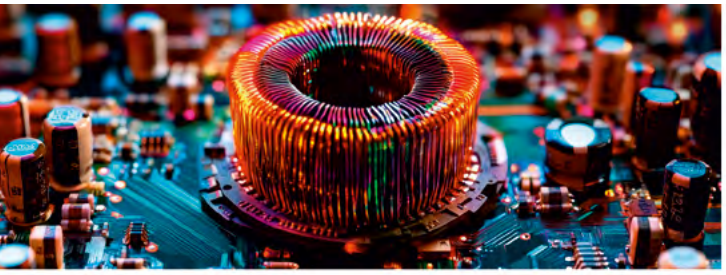
- Shock absorbers
- Linear rails
- Cylinder rods
- Piston skirts for internal combustion engines
- Garden and DYI tools

## UNIQUE CHARACTERISTICS

- Excellent friction over a wide range of sliding speeds
- Very good friction in lubricated conditions
- Applicable to heat-sensitive substrates
- High surface hardness

## 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.



For questions and assistance, contact a GGB engineer at: **https://www.ggbearings.com/en/contact**

# TriboShield® TS225

## TECHNICAL DATA

| COATING PROPERTY | UNIT | VALUE |
|---|---|---|
| Color* | - | Black |
| Standard thickness | µm | 25 |
| Maximum continuous service temperature | °C / °F | 120 / 248 |
| Maximum short-term peak temperature | °C / °F | 130 / 266 |
| Friction coefficient, typical range** | - | 0.04 - 0.25 |
| 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.