

High Performance Polymer Materials

for Seals & Bearings



Superior self-lubricated High Performance Polymers with excellent strength, high hardness and improved wear resistance by combining PTFE with high quality fillers.

Morgan provides high performance engineering polymers that include filled PTFE, resin bonded and PEEK based grades. Our know-how and experience covers wear part applications in both oil free and lubricated compressor applications. Using Morgan's technology in tribological materials enable us to supply most favourable solutions to customers.

High Performance Polymer Family	Key Characteristics
Filled PTFE	Excellent Strength High Hardness Wear Resistant
Resin - Bonded Grade	Suitable for Extreme Conditions

High Performance Polymer Applications

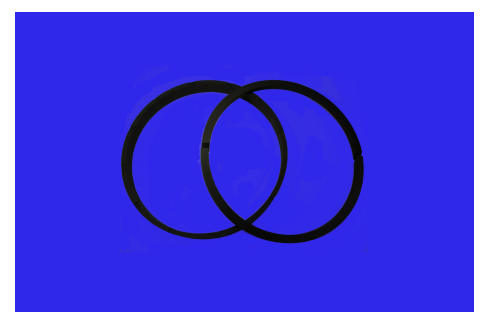
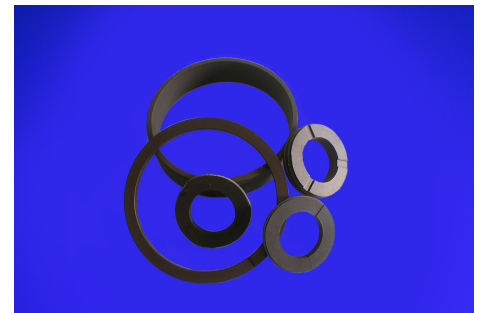
Please contact us for a grade recommendation best suited to your application.

- Cylinder and Packing Wear Parts for Oil-Free and Lubricated Reciprocating Compressors
- Inter Stage Labyrinth Seals of Rotary Compressors
- Journal and Thrust Bearings in Submersible Motors
- Applications in Product Lubricated Pumps
- Pump "Neck" Rings
- Seals and Bearings in Valve Applications
- Bearing Pads on Rail and Tram Systems
- Seals and Bearings in Water Turbines

High Performance Polymer Characteristics

- Low coefficients of static and dynamic friction
- Operating Temperature range of -2000C TO +2000C
- Good Thermal Conductivity
- Chemically Inert
- Non-toxic and non-hydroscopic
- Can operate in dry gases

Contact us today for our most up-to-date datasheets and a grade recommendation tailored to your application.



Morgan Grades - Gas Chart

GAS	FORMULA	WET GAS	DRY GAS	HIGH PRESSURE
Air	-	MAT900/MAT901	MAT904	MAT903/MAT909
Ammonia	NH ₃	MAT900/MAT901	MAT904	-
Argon	Ar	MAT900/MAT901	MAT920	MAT904
Butane	C ₄ H ₁₀	MAT900/MAT901	MAT904	MAT904
Butene	C ₄ H ₈	MAT904	MAT904	MAT904
Carbon Dioxide	CO ₂	MAT900/MAT901	-	MAT904
Carbon Monoxide	CO	MAT906	MAT906	MAT906
Ethane	C ₂ H ₆	MAT900/MAT901	MAT904	MAT904
Ethanol	C ₂ H ₅ OH	MAT904	MAT904	MAT904
Ethylene	C ₂ H ₄	MAT904	MAT904	MAT904
Helium	He	MAT904	MAT920	MAT904
Heptane	C ₇ H ₁₆	MAT900/MAT901	MAT904	MAT904
Hexane	C ₆ H ₁₄	MAT900/MAT901	MAT904	MAT904
Hydrogen	H ₂	MAT904	MAT920	MAT904
Hydrogen Chloride	HCl	MAT900/MAT901	MAT904	MAT904
Hydrogen Sulphide	H ₂ S	MAT900/MAT901	MAT904	MAT904
Landfill Gas	-	MAT900/MAT901	-	MAT904
Methane	CH ₄	MAT904	MAT920	MAT904
Methanol	CH ₃ OH	MAT900/MAT901	MAT904	-
Methyl Chloride	CH ₃ Cl	MAT900/MAT901	MAT904	MAT904
Nitrogen	N ₂	MAT900/MAT901	MAT920	MAT904
Oxygen	O	MAT910	MAT910	MAT910
Pentane	C ₅ H ₁₂	MAT900/MAT901	MAT920	MAT904
Propane	C ₃ H ₈	MAT904	MAT920	MAT904
Propylene	C ₃ H ₆	MAT904	MAT904	MAT904

Morgan Advanced Materials

At Morgan Advanced Materials, our purpose is to use advanced materials to help make more efficient use of the world's resources and to improve the quality of life.

Morgan's highly experienced scientists and application engineers actively engage with our customers to find new solutions for complex and technologically demanding problems.

We are building distinctive competencies in:

- Leading technology and materials science capability and process know-how
- Application engineering
- Customer focus, reputation for quality and delivery and brand

Our core strength is our ability to get to grips with individual customer problems, apply the science and engineer elegant and reliable solutions.

For all enquiries, please contact our specialist sales and marketing offices

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