

Rings and Liners



Federal-Mogul supplies a wide variety of advanced technologies designed to improve fuel economy reduce vehicle emissions and enhance performance.

As a leader in powertrain innovation and technology Federal-Mogul uses highly efficient casting and advanced machining manufacturing process technologies. We design and produce a wide product portfolio of rings and liners with unique advanced low friction coatings and ring designs to reduce oil consumption.

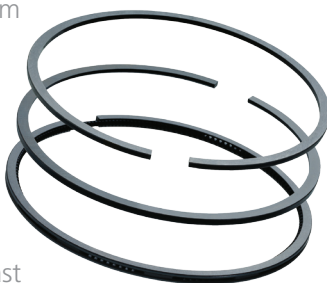
Gasoline and Diesel Engine Piston Rings

- New ring designs reduce oil use, improve combustion chamber efficiency and enable better fuel economy and lower emissions
- Unique next-generation plasma and Physical Vapor Deposition (PVD) ring coatings provide maximum scuff resistance
- High Performance DuroGlide® PVD Cast Iron Rings set new benchmarks for ring performance, delivering lowest friction, best wear and excellent scuffing behavior
- Blitzchrome® ring side face protection provides more than 50% wear reduction
- Goetze Diamond Coating (GDC®) for piston rings offers 30% wear improvement
- LKZ-Ring® piston rings decrease oil consumption 50% and in-cylinder friction 15%
- CarboGlide® coating reduces ring friction 20%
- Advanced cast iron, cast steel and steel-wire materials



Piston Rings for Large Bore Engines

- 145 mm - 980 mm bore size for 4 and 2 stroke engines
- Gas tight gaps
- Sophisticated geometries
- Use of CGI, VGI, and other advanced grey cast iron materials as well as cast steel
- Plasma, ceramic, chrome-ceramic, GDC® and other coatings



Cylinder Liners for Passenger Cars and HD-Engines

- Hybrid Liner reduces oil consumption by 40%
- GOEDEL® Cylinder Liner material compositions serve all requirements, such as intermetallic bonding for lowest distortions and optimum heat transfer in combination with advanced tribology properties
- Extensive liner product range offers grey and alloyed, lamellar and vermicular compacted graphite iron (CGI), optional surface hardening and solutions for strength, performance and extended life
- Aluminum-coated automotive liners provide superior bonding, reduced distortion and improved oil economy
- Advanced analysis techniques for distortion reduction and improved piston ring sealing for extreme diesel cylinder pressures
- Extensive knowledge of advanced surface textures like Plateau Honing and related manufacturing strategies

