



INDO GERMAN INDUSTRIES

Manufacturer & Exporter
of Diesel Engine Spares

Since 1977

ISO 9001:2015

402, One Dwarka
Tagore Road, GPO
Box 219, Rajkot 360002
Gujarat, INDIA

91+281+2475902
igi@indogermanind.com
www.indogermanind.com

CHROME

Chrome's exceptionally hard surface is ideal for handling high temperatures, vibrations & RPMs. Chrome piston rings provide increased engine life, particularly when conditions are dirty or dusty.



INDUSTRIES

- ✓ Off Highway
- ✓ Industrial
- ✓ Turbocharger Assemblies
- ✓ Heavy Construction

BENEFITS

- ✓ Increased Engine Life
- ✓ Exceptional Handling of High Temperatures
- ✓ Reduces Wear in Reciprocating Applications

OPTIONS

- ✓ Chrome can be applied to all or any part of the piston Ring



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MANGANESE PHOSPHATE

Manganese phosphate is best suited for cast and ductile iron sealing and piston rings where break-in lubricity and rust prevention are critical- providing unbeatable abrasion and corrosion resistance.



INDUSTRIES

- ✓ Oil & Gas
- ✓ Automotive
- ✓ Aerospace
- ✓ Marine
- ✓ Industrial
- ✓ Gears & Bearings

BENEFITS

- ✓ Prevent Galling
- ✓ Improve Break-In Properties
- ✓ Resist Scuffing
- ✓ Allow for Oil Application & Reapplication

OPTIONS

If you don't options listed here that matches your requirements, let us know and we'll work with you to create an ideal solution.



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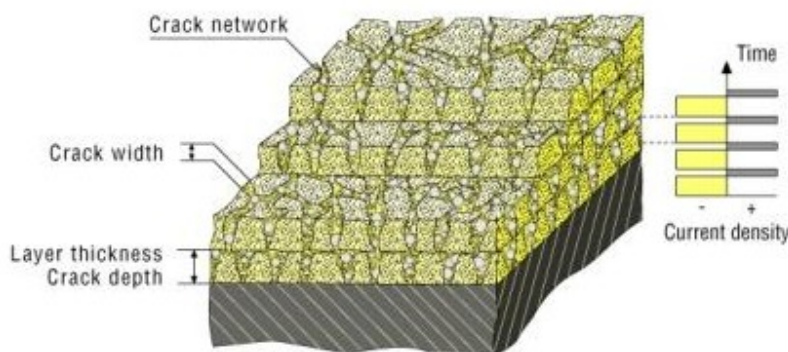
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Cermet-coated

Everllence cermet-coated piston rings provide highly effective protection against scuffing and seizures—even during prolonged operation on low-sulphur fuels (ULSFO and VLSFO).

Cermet is a composite coating made of ceramic and metallic materials. This combination delivers outstanding elastic durability and high resistance to temperature and seizure.

Even in cases of temporary oil film breakdown, cermet-coated rings continue to perform reliably once the film is restored—allowing normal operation until the next scheduled overhaul.



Key benefits:

- **Low friction**
- **Reduced lube oil consumption**
- **Extended cylinder liner lifetime**
- **Safe and reliable running-in**
- **Maximized piston operational time**
- **Improved time between overhauls**



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High Velocity Oxygen Fueled Thermal Spray Coating (HV385)



Indo German Industries' Performance HV385 High Velocity Oxygen Fueled (HVOF) Thermal Spray Face Coating is designed, engineered, and manufactured to withstand the extreme punishment of today's high RPM naturally aspirated, turbocharged, supercharged and nitrous oxide assisted engines. Indo German Industries patented HV385 ring face coating is applied using an ultra-high temperature thermal spray process, fueled by pure oxygen and RP1 jet fuel. The resulting jet engine-like combustion event accelerates the molten material to supersonic speeds, spraying onto the face of the ring. This high temperature, high velocity stream of molten alloy face coating ceramic/metallic material creates a very dense and extremely well bonded coating on the ring face that outlasts even the most demanding operating conditions. Additionally, the HV385 thermal spray face coating provides unmatched strength, scuff resistance, and overall durability – not obtainable by any other piston ring face coating, or surface treatment in the industry today. The HV385 thermal spray face coated top rings feature micro-polished side and face sealing surfaces, minimizing friction, ensuring quick seating, and providing a uniform barrel face profile.