The Freudenberg Sealing Technologies ISR Simmerring oil seal is a premium quality seal typically used in numerous original equipment applications such as gearboxes, axles, transmissions, and engines.

VALUES FOR THE CUSTOMER
- Outstanding sealing performance with robust and excellent sealing behavior even in harsh environment
- Superior reliability and life time due to low friction and low power loss
- Excellent wear resistance
- Simple installation
- Excellent medium compatibility with mineral and synthetic lubricants
- Covers a wide range of applications
- Standardized according ISO 6194

DESIGN FEATURES

Material properties
72 NBR 902—features flexibility in cold temperatures with a low acrylonitrile content, elastic properties, and tough wear resistance

75 FKM 585—an FKM terpolymer with excellent compatibility to modern lubricants and excellent wear resistance with a temperature range of –25 °C to 160 °C

Garter Spring
- Low load design parameters
- Provides long life load stabilization

Sealing Lip
- Trimmed lip provides excellent sealing performance
- Extremely low friction generates less heat
- Pressure stable up to 0.5 bar/50 kPa
- Circumferential speed up to 40 m/s
- Excellent with bi-directional shaft rotation

Rubber O.D.
- Excellent static sealing behavior independent of housing materials and surface roughness
- Low assembly forces due to grooved O.D.
- Tight fit for pressure up to 1.0 bar with proper installation and housing surface preparation

Metal Insert

Dust Lip
- Excellent protection against dust, mud, and water
FEATUERS AND BENEFITS

Friction Torque and Power Loss (mineral oil and PAG oil)

- Up to 90% lower friction torque
- Up to 80% less specific heat generation within the sealing contact zone
- In average, up to 50% less seal wear than competitor seals

ISR Simmerring oil seals deliver:

- Better wear resistance and chemical compatibility due to the high quality elastomer
- Minimized effect from moderate pressure on seal life due to improved lip design
- Consistent performance proven out to 20,000 hours in appropriate sealing environment

ISR SIMMERRING OIL SEALS DELIVER LONGER SEAL LIFE AND HIGHER RELIABILITY RESULTING IN LOWER COSTS FOR OUR CUSTOMERS!

The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end product performance. Full scale testing and end product performance are the responsibility of the user.

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