

SIMMERRING® SOLUTIONS FOR AEROSPACE



Freudenberg Sealing Technologies Simmerring oil seals are the preferred sealing solution for the aerospace industry. Our Simmerrings are the ideal seals for any aerospace application including engines, gearboxes, flight controls, wheels, brakes, and fuel controls. We offer our Simmerrings in wide variety of material options for all operating environments.

Select material options ideally suited for aerospace applications

Low Temperature FKM

- Fuels and solvent resistant
- Exceptional low temperature capabilities with working temperatures as low as -40°C

Fluorosilicone (FVMQ)

- Superior resistance to fuels and solvents
- Ideally suited for extreme low temperature with working range temperatures as low as -55°C

FluoroXprene® Materials

- Extreme temperature range between -40°C and 200°C
- Unmatched chemical and thermal resistance
- Improved creep resistance
- Higher flexural strength
- Recyclable

VALUES FOR THE CUSTOMER

Freudenberg Sealing Technologies is a global partner for Simmerring oil seal solutions with world-wide availability of premium materials and a wide variety of lip designs. Our Simmerrings are dependable and never fail to deliver:

- A broad selection of material options such as NBR, FVMQ, FKM, and more
- Superior reliability and sealing lifetime due to low friction and low power loss
- Excellent wear resistance
- Simple installation
- Technical support provided for most optimum sealing lip designs to fit your application
- Wide range of standard and customizable solutions for both imperial and metric sizes
- Available with and without a metal insert that replaces the need for a metal retainer plate

SELECTED SEAL DESIGN LIP OPTIONS

BABSL seals

- Created for a variety of medium pressure application
- Available with and without an elastomer OD
- Ideally suited for actuator gearbox

BABSL profile



BAUM seals

- Created for high speed applications
- Low torque lip design offers lower frictional torque and low power loss
- Available with and without dust lip
- Ideally suited for engine gearboxes

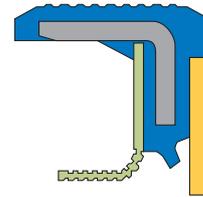
BAUM profile



Simmerring with Bonded PTFE Lip

- Especially designed for extremely high-speed applications
- Unparalleled wear resistance even under poor lubrication
- Ideally suited for accessory gearboxes

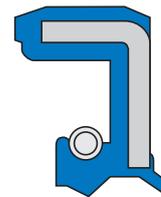
Simmerring with PTFE Lip profile



PPS (Premium Pressure Seals)

- Exceptional in high-pressure and at high speed within low-pressure applications
- Unique lip design that reduces underlip temperatures and hollow wear
- Ideally suited for gear and vane pumps, rotary actuators, radial and axial piston motors, and input shaft applications for electric drive motors

PPS profile



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