



# Gasket Products

**simrit**<sup>®</sup>

# Your Technology Specialist

**The quality of our products is our priority—customer satisfaction is our ultimate goal. We accept the responsibility to meet our customer’s expectations. We will continuously strive to improve quality.**



Our ISO-9001 certified **Necedah, WI Operation** provides a full range of gasket sealing solutions utilizing proven technology in processing a variety of materials to meet a wide range of customer design and application requirements.

Our commitment to quality continues to be a consistent contributor to our success. Throughout the automotive industry, we are known for **excellence in sealing technology**. We bring this reputation to the industrial market via the Simrit division.

We share our customers’ expectations for continuous improvement, utilizing the Freudenberg **GROWTTH** (Get Rid Of Waste Through Team Harmony) process. This lean systems program parallels the Japanese production system and emphasizes teamwork and communication to increase efficiency in the use of time, labor, materials and space. We strive toward continuously

improving performance against a unique set of customer satisfaction metrics, which were identified by our customers as highly desirable attributes for a world-class supplier.

We have complete design and testing capabilities through our Technology Center in Plymouth, Michigan. The center focuses on research and development, product engineering, product testing and material testing. Our new state-of-the-art facility contains the finest testing and analysis equipment available, coupled with a team of **technology specialists** to provide highly engineered sealing solutions unmatched by the competition.



## Single Layer Coated Metal Gaskets



### Target Applications

- Cylinder Heads
- Intake Manifolds
- Compressors
- Water Pumps
- Water Outlets
- Industrial Housings/Covers

### Material Options

- Fluoroelastomer
- Nitrile
- Neoprene
- Closed Cell Foam
- Carbon Steel
- Stainless Steel
- Aluminum

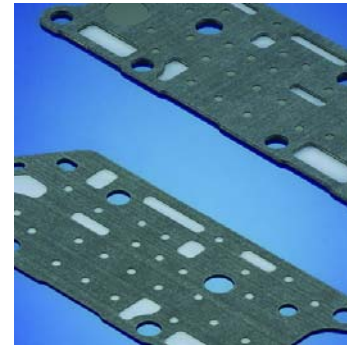
### Application Parameters

- Temperature: 1000° F (max)
- Fluids: Oil, Air, Coolant, Refrigerant, Exhaust
- Pressure: 2,000 psi (max)

### Benefits

- Improved Torque Retention
- Excellent Dimensional Stability
- High Pressure Design Features
- Increased Durability/Product Life
- Specifically Designed for Each Application

## Filter Mesh Gaskets



### Target Applications

- Transmissions
- Filters
- Fuel Systems
- Hydraulic Systems
- Solenoid Valves

### Material Options

- Laminates
- Wide Range of Engineered Materials
- Mesh Materials:
  - Polyester
  - Stainless
  - Carbon Steel

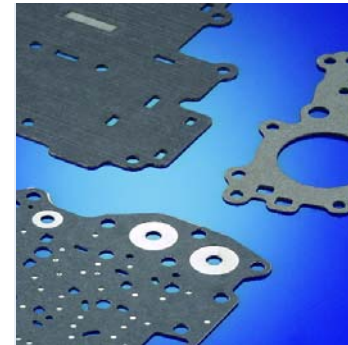
### Application Parameters

- Temperature: 300° F (max)
- Fluids: Oil, Automatic Transmission Fluid
- Pressure: 400 psi (max)

### Benefits

- Minimized Distortion
- Improved Torque Retention
- Contamination Prevention Features
- Wide Variety of Screen Fabrics Available
- Specifically Designed for Each Application

## Bonded Gaskets



### Target Applications

- Transmissions
- Fuel Systems
- Engine Applications
- Industrial Housings/Covers

### Material Options

- Coated Metals
- Graphite
- Carbon Steel
- Aluminum
- Wide Range of Engineered Materials Available

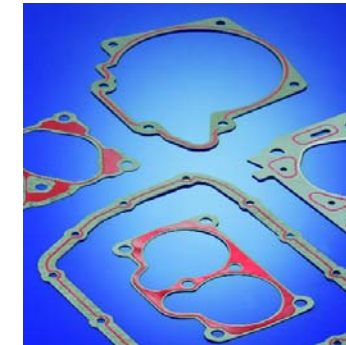
### Application Parameters

- Temperature: 1500° F (max)
- Fluids: Oil, Fuel, Coolant, Automotive Transmission Fluid, Exhaust
- Pressure: 750 psi

### Benefits

- Assembly Aide
- Reduced Inventory
- Excellent Dimensional Stability
- Value-Added Componentry Options
- Multi-Munctional Offset Sealing Capability
- Wide Range of Material/Design Options

## Screen Printed Gaskets



### Target Applications

- Fuel Systems
- Pumps
- Transmissions
- Cooling Systems
- Industrial Housings/Covers

### Material Options

- Silicone/Nitrile Beads
- Fiber Construction
- Laminates
- Composites
- Closed Cell Foam
- Various Coatings Available

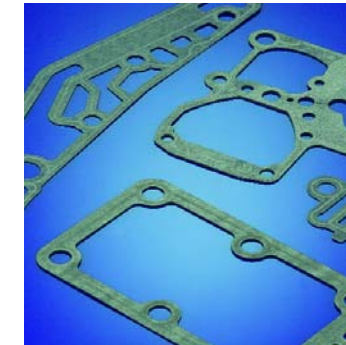
### Application Parameters

- Temperature: -65°—300° F (max)
- Fluids: Oil, Fuel, Coolant, Automatic Transmission Fluid
- Pressure: 5,000 psi

### Benefits

- Improved Sealability
- Improved Torque Retention
- Minimal Land Area Required
- Wide Range of Material/Design Options
- Specifically Designed for Each Application

## OPAK Gaskets



### Target Applications

- Engine Applications
- Fuel Systems
- Transmissions
- Pumps
- Industrial Housings/Covers
- General Sealing

### Material Options

- Cellulose Fiber
- Laminates
- Uniplate
- Wide Range of Engineered Materials Available

### Application Parameters

- Temperature: 200°—300° F (max)
- Fluids: Oil, Fuel, Coolant
- Pressure: 1,000 psi (max)

### Benefits

- Improved Torque Retention
- Lighter Weight Assemblies
- Smaller Fasteners Required
- Optimum Creep Relaxation
- Increased Sealability

## Composite Gaskets



### Target Applications

- Cylinder Heads
- Intake & Exhaust Manifolds
- Fuel Systems
- Compressors
- Transmissions
- Bonded Valve Body

### Material Options

- Uniplate/Unigraf
- Kormetal
- Metal Clad
- Aluminum
- Stainless Steel
- Carbon Steel
- Laminates

### Application Parameters

- Temperature: 300°—500° F (max)
- Fluids: Oil, Automatic Transmission Fluid, Fuel, Coolant
- Pressure: 1,000 psi (max)

### Benefits

- Improved Sealability
- Value-Added Features
- Excellent Durability Characteristics
- Wide Range of Material/Design Options
- Specifically Designed for Each Application

## Laminated Gaskets



### Target Applications

- Insulators
- Fuel Systems
- Manifolds
- Transmissions
- Engines
- Industrial Housings/Covers

### Material Options

- Cellulose Fiber
- Unigraf
- Carbon Steel
- Fiber Board
- Kormetal

### Application Parameters

- Temperature: 1600° F (max)
- Fluids: Oil, Automatic Transmission Fluid, Coolant, Exhaust
- Pressure: 1,000 psi (max)

### Benefits

- Improved Sealability
- Excellent Dimensional Stability
- Clinch/Adhesive Bond Options
- High Temperature Material Options
- Various Laminate Materials Available

## Flat Cut Specialty Coated Gaskets



### Target Applications

- Engines
- Fuel Systems
- Transmissions
- Pumps
- Industrial Housings/Covers
- General Sealing

### Material Options

- Compressed Sheet
- Cork
- Cellulose Fiber

### Application Parameters

- Temperature: 200°—500° F (max)
- Fluids: Oil, Fuel, Coolant
- Pressure: 1,000 psi (max)

### Benefits

- Improved Sealability
- Prevents Wicking
- Completely Encapsulated
- Wide Range of Coating Options
- Specifically Designed for Each Application

## Multi-Layered Steel Gaskets



### Target Applications

- Cylinder Heads
- Exhaust Manifolds
- Compressors
- Hydraulic Systems
- Exhaust Flange

### Material Options

- Carbon Steel
- Stainless Steel
- Coated Steel
- Clad Metal
- Rubber Coated Metal

### Application Parameters

- Temperature: 1500° F (max)
- Fluids: Oil, Coolant, Exhaust
- Pressure: 1,000 psi (max)

### Benefits

- Unique Embossments
- Minimized Distortion
- Improved Torque Retention
- Extended Product Life
- Designed to Specific Customer Requirements

## Special Assembly Gaskets



### Target Applications

- Exhaust Applications
- Fuel Systems
- Transmissions
- Engine Applications

### Material Options

- Complete Range of Material Options Include: Metal, Cellulose Fiber, Phenolic, Elastomers, Cork, Plastic and Graphite
- Customer Specific Materials

### Application Parameters

- Temperature: 1500° F (max)
- Fluids: Oil, Fuel, Coolant, Automatic Transmission Oil
- Pressure: 1,000 psi (max)

### Benefits

- Assembly Aide
- Reduced Inventory
- Multi-Functional Capability
- Value-Added Componentry Options
- Wide Range of Material/Design Options
- Designed to Specific Customer Requirements

# Who is Simrit?

**Simrit is the industrial sealing products division of Freudenberg-NOK that is dedicated to serving industrial distributors and OEMs. Simrit products are manufactured within the Freudenberg and NOK Group Companies, known for their world-class quality and reliability.**

**Simrit's manufacturing and design expertise, coupled with exceptional customer service and field engineering support, enables us to provide our customers superior sealing components and total system sealing solutions that exceed their expectations.**

**Simrit—Your Technology Specialist.**

## **North American Headquarters**

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The logo for Simrit, featuring the word "simrit" in a bold, blue, lowercase sans-serif font, with a registered trademark symbol (®) to the upper right of the "t".