

Food and Beverage Sealing Solutions

The food and beverage industry is a growing market that requires safe, reliable products. The harsh oils and high temperatures in ovens, heat generation in high-speed mixers, and the precise measuring that goes into filling containers are some of the challenges that the industry faces today. Simrit offers a wide variety of sealing products that will enable your company to produce the highest quality products possible.

Products that we offer:

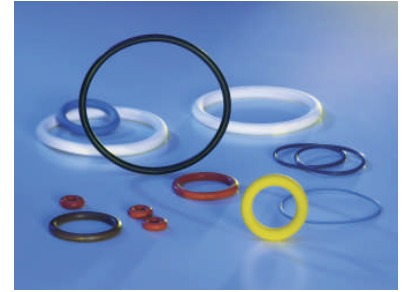
O-rings, gaskets and plate seals for pumps, valves, pipe fittings and pipeline flanges

Radial shaft seals for pumps, gearboxes and motors

Diaphragms for pumps and metering equipment

Door seals for ovens, fryers and cookers

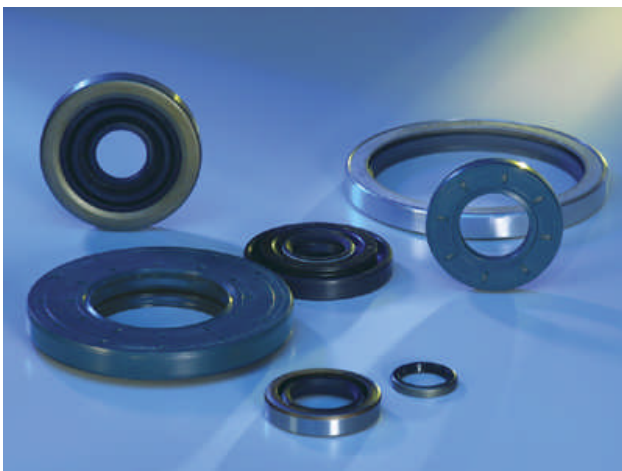
Solenoid valve plunger seals for beverage dispensing equipment



Simrit offers FDA and ANSI/NSF approved materials that can offer the best performance for your food and beverage applications.

Simrit offers a wide range of elastomeric compounds that are formulated to comply with regulations issued by the United States Federal Food & Drug Administration (FDA). These include: perfluoroelastomer, fluorocarbon, silicone, ethylene-propylene and nitrile. For more information, please see the Simrit Food and Drug Applications Materials List flyer and Drinking Water Applications Materials List flyer.

Simrit Radial Shaft Seals



Applications for our products

- Warming Chambers
- Convection and Pizza Ovens
- Steamers
- Combi-ovens – Convect/Steam
- Fryers
- Pressure Cookers
- Beverage Dispensers
- Gearboxes
- Pumps
- Valves
- Metering Equipment

Applications Materials List

Name	Material Type	Material Type	Color	Hardness, Shore A	Description
Simriz® 484	Perfluoroelastomer	FFKM	Black	75	FDA compliant, USP Class VI approved
V178	Fluorocarbon	FKM	Red	75	FDA compliant, USDA 3A Sanitary Standard, and USP Class VI approved
S70	Silicone	VMQ	Red	70	FDA and USDA 3A Sanitary Standard compliant
S321	Silicone	VMQ	Red	50	USP Class VI approved, USDA 3A Sanitary Standard compliant, FDA compliant
E388	Ethylene-Propylene	EPDM	Black	75	FDA compliant except with milk or edible oils
N445	Nitrile	NBR	Black	70	FDA compliant except with milk or edible oils Internally lubricated

For a complete list, please see our Food and Drug Applications Materials List flyer

Material Expertise & Service

Freudenberg-NOK mixes rubber compounds in-house and tests for quality at the time of production. We offer an assortment of rubber colors allowing for easy part differentiation. Our molding and assembly processes include 100% visual inspection at the source. At the time of a new launch, products are matched with the production process that best meets goals for cost and performance. When new products are launched prototype and production parts are manufactured using the same process, ensuring a smooth launch from prototype to mass production.

Benefits

- Wide choice of ANSI/NSF, FDA or NSC 51 compliant materials
- Ability to design the best seal profile for application
- FEA to verify design
- In-house testing for thermal and chemical resistance
- Multiple manufacturing methods to provide best solution at best price
- High quality – We are your technology specialist
- One stop shop for sealing – can include die cuts, O-rings, extrusions, radial shaft seals, precision static seals and other products to match your application needs
- Added value through our material and design expertise that can save time and money

World-Class Manufacturing

- **Zero Defect Philosophy** – Our global commitment to Six Sigma quality levels is evident in every step of every process and guarantees each part, no matter where it is produced.
- **Production Know How** – The Freudenberg-NOK organization draws from more than 150 years experience in producing seals.
- **Global Production Flexibility** – With facilities world-wide we are capable of supporting production programs globally.
- **Testing** - State of the art test and measurement equipment for design validation and development.
- **System Responsible** – Our entire approach to effective sealing is based on the knowledge that consistency is the key to reliability. The complete value of our systems approach is a function of leveraging Freudenberg-NOK's quality and dependability in every component.