



TFE-O-SIL[®]

**O-RINGS
& GASKETS**

**SUPERIOR
SEALS
THROUGH
ENCAPSULATED
ELASTOMERS**

ROW, INC.

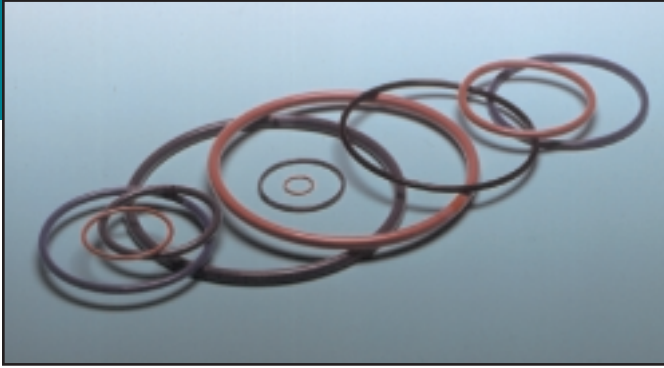
Since 1976

HIGH PERFORMANCE SEALS FOR DEMANDING APPLICATIONS

TFE-O-SIL O-Rings from ROW, INC. provide positive, long-lasting seals through a unique marriage of two high-performance materials. Begin with a resilient inner core of silicone, Viton® or EPDM, vulcanized for extra strength and durability. Add the chemical inertness of FEP or PFA encapsulation, with no air gap for less compression set. The result? A seal you can count on, year after year, under extreme temperatures and in the toughest corrosive environments.

ROW, INC. has been a leading manufacturer of FEP and PFA encapsulated O-Rings and Gaskets since 1976. Marketed under the name of TFE-O-SIL, these seals are designed to form a highly effective, long lasting seal in the most hostile chemical and temperature environments.

ROW, INC. ■



Product Lines

- FEP Encapsulated O-Rings
- PFA Encapsulated O-Rings
- Square Cross-Section Ring Seals
- Rectangular Cross-Section Ring Seals
- Cam Lock Coupling Gaskets
- Custom Designed Seals

Sizes & Tolerances

TFE-O-SIL O-Rings are available in over 60 standard and custom cross-section sizes from .063" (1.60mm) to 1¹/₄" (31.75mm). TFE-O-SIL O-Rings in round or square cross-sections are manufactured in sizes to AS 568 (inch) standards and most international (metric) standards.

Square cross-section TFE-O-SIL Rings are also used in applications where a larger sealing surface is needed to effect a more positive seal. These Rings require less squeeze than standard O-Rings for sealing and use the same groove size.

Encapsulated O-Rings require an additional cross-sectional tolerance of ± .001" (0.25 mm) to AS568 standards due to the FEP or PFA encapsulation (combination of elastomeric core and encapsulation).

ROW, INC. can manufacture O-Rings and square cross-section Rings in diameters ranging from 5/16" to 20 feet. ROW specializes in custom sizes (inch and metric) with the industry's most responsive lead times and minimums.

Specifications

Elastomeric Core

- Solid silicone to ZZ-R-765
CLASS 2B/70 DURO – FDA Conforming
- Hollow silicone to ZZ-R-765
CLASS 2B/70 DURO – FDA Conforming
- Viton (75 DURO) to AMS 3216
(formerly MIL-R-83248C)
- EPDM 70 DURO – FDA Conforming

Encapsulation

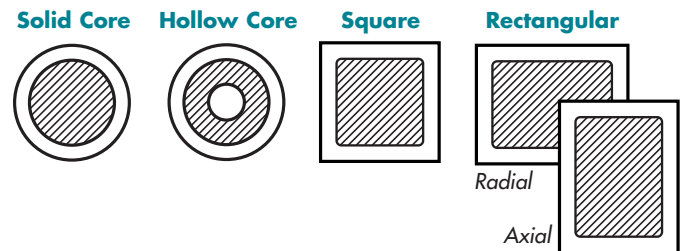
FEP (Fluorinated Ethylene Propylene)

- Clear
- Upper temperature limit: 400°F (204°C)
- Excellent chemical and corrosion resistance
- Will not absorb moisture
- Excellent resilience
- Smooth/self-lubricating surface
- FDA Compliant
- USP Class VI approved

PFA (Perfluoroalkoxy)

- Clear with light blue tint
- Upper temperature limit: 500°F (260°C)
- Excellent heat and chemical resistance
- Better crack and stress resistance than FEP
- Extremely smooth surface
- Low vapor permeation
- FDA Compliant
- USP Class VI approved

Encapsulation wall thickness ranges from .010" (0.25 mm) to .045" (1.14 mm) depending on the cross section of the elastomeric core.



	Temperature Range	
	FEP	PFA
Silicone	-75° to +400°F -60° to +205°C	-75° to +500°F -60° to +260°C
Viton	-15° to +400°F -26° to +205°C	-15° to +400°F -26° to +205°C
EPDM	-65° to +300°F -54° to +150°C	-65° to +300°F -54° to +150°C

QUALITY • DEPENDABILITY • SERVICE

Engineering Assistance

The ROW, INC. engineering department is ready to assist you in solving your sealing problems. Samples are also provided for testing and evaluation. If ROW, INC. doesn't have what you are looking for, design assistance is available.

Warranty

O-Rings and Gaskets manufactured by ROW, INC. are warranted to be free from all defects in material and workmanship. ROW, INC.'s liability thereunder is limited to the purchase price on any O-Rings or Gaskets proved defective, or at its option, to the replacing of such O-Rings or Gaskets.

It is impossible to test O-Rings and Gaskets under all conditions to which they might be exposed in the field; therefore, it is important that O-Rings or Gaskets be tested under conditions that duplicate the service conditions before a seal design is finalized.

Ordering

Call ROW, INC. at 1-800-770-7128. A sales associate will ask you all the information necessary to complete your order. Orders or requests for quotations may also be made via fax at 1-630-628-9229. Call for details.

OTHER QUALITY PRODUCTS FROM ROW, INC.



ROW, INC. also manufactures a full line of TFE-O-SIL[®] silicone and Viton[®] Gaskets encapsulated with FEP, for cam and groove, disconnect couplings. They are available for a wide range of continuous service temperatures from -75°F (-60°C) to +400°F (+205°C) in silicone, and -15°F (-26°C) to +400°F (+205°C) in Viton. With their clean, sanitary appearance, ROW, INC. white silicone core gaskets encapsulated with FEP are ideal for pharmaceutical, food and beverage applications. They come in coupling sizes from 1/2" through 6". In addition, ROW, INC. manufactures completely encapsulated straight lengths.

ROW, INC.

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