

## Encapsulated O-ring

Encapsulated O Rings are generally manufactured with a Viton® or Silicone energizing core and have an exterior DuPont™ FEP or PFA jacket.

### Encapsulated O-ring Jacket

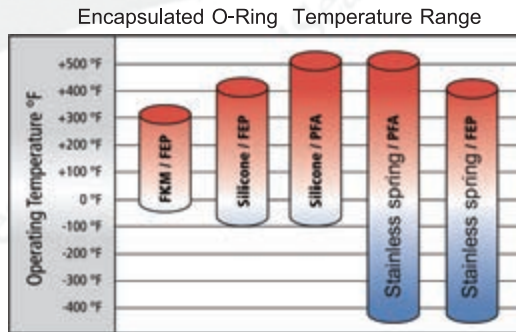
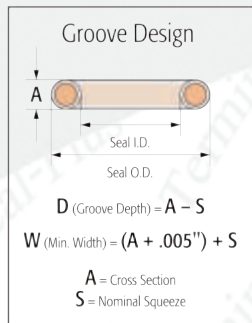
FEP Teflon® combines superb corrosion resistance, sealing reliability and operating temperature range: -450 to +400 ° F (-267 to + 205°C).

PFA Teflon®, which 's similar to FEP, but it provides higher mechanical properties at higher operating temperatures : -450 to +500°F (-267 to + 260°C).

### Encapsulated O-ring Core

FKM, Silicone, Silicone Hollow, Stainless Spring Type 301/302, EPDM

Core Available by Special Order: Viton® Extreme GF-S, Perfluoroelastomer, Fluorosilicone, Nitrile (Buna N)



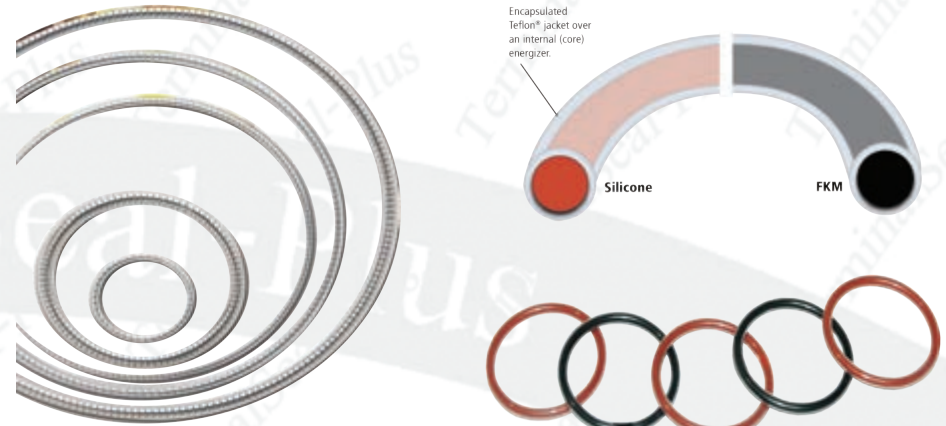
### Advantages of Encapsulated O-rings

Abrasion Resistance	Chemically Inert	Enclosed Energizer Core
Excellent Resilience	High Chemical Resistance	Good Impact Strength
Low Absorption	Low Coefficient of Friction	Low Compression Set
Low Ovality	Lubricity	No Swelling
Non Flammable	Relatively Low Permeability	Reusable
Sanitary	Smooth Surface	Wide Temperature Range

### Encapsulated O-Rings Applications

Chemical Processing  
Paints and Dies  
Food & Drink  
Power Generation  
Shipping/Marine, Transportation

Petrochemical Refineries, Oil & Gas  
Refrigeration, Semi-Conductor  
Pharmaceutical & Cosmetic  
Aerospace, Defense, Space  
Construction, Paper Industry



## Kalrez® O-rings

### Physical Properties and Product Comparisons

Kalzer® perfluoroelastomer (FFKM) parts are available in a number of different compounds that are formulated to optimize properties to give the best possible performance in various applications. Modification of the finished properties is achieved by use of fillers and others additives.

Table 1 summarizes the basic physical properties of the most commonly used Kalrez® products for the chemical and hydrocarbon processing industries. Descriptions of the key attributes for each product and their general areas of application follow.