

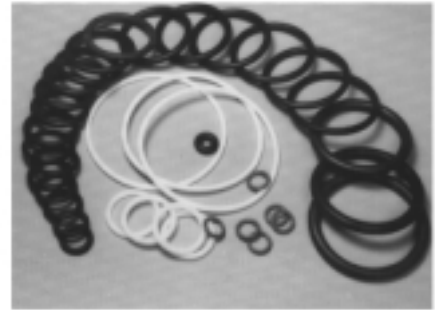
# F72 O-Rings

## O-Rings available in six different compositions

O-Rings are available in six different materials from Scientific Instrument Services. Each type has its advantages and disadvantages as listed in the chart below, and the type required depends on the O-Ring application. Of the various types of O-Rings available from SIS, Viton™ is the most popular for mass spectrometers and other laboratory instruments. This is due to Viton's high temperature stability and good resistance to chemicals and ozone.

On the following pages, O-Rings are listed by both nominal and actual size. The nominal size is the closest fractional dimension to which the O-Ring is tooled and manufactured. During manufacture the O-Rings shrink in size during the curing process. This accounts for the slight differences between the nominal and actual sizes. The I.D. is the inside diameter and the width (W) is the thickness of the O-Ring material. Order O-Rings by using the part number prefix listed in the table below followed by the standard size number listed first in the O-Ring tables, i.e. V-110 for 3/8" Viton O-Ring.

**NEW** - 7T01 - Perfluoroelastomer (FFKM) O-rings. 7T01 has been designed for very demanding sealing applications in aggressive chemical environments. "7T01" resists attack by nearly all chemical reagents, including organic and inorganic acids, alkalines, ketones, esters, alcohols, fuels, and hot water.



**O-Ring Properties**-\* use this prefix in front of the size number when ordering O-Rings, i.e. V-110 for Viton size 3/8" O-Ring.

Property	Buna-N	Viton	Silicone	PTFE	Kalrez	7T01*
Part No. Prefix	B-	V-	S-	T-	K-	7T01-
Tear Resistance	Fair	Good	Poor	Excellent	Good	Excellent
Abrasive Resistance	Good	Good	Poor	Excellent	Good	Good
Ozone Resistance	Poor	Excellent	Excellent	Good	Excellent	Excellent
Weather Resistance	Fair	Excellent	Excellent	Good	Excellent	Excellent
Heat Resistance	Fair	Excellent	Excellent	Good	Excellent	Excellent
Chemical Resistance	Fair	Excellent	Good	Excellent	Excellent	Excellent
Oil Resistance	Excellent	Excellent	Poor	Good	Excellent	Excellent
Acid Resistance	Fair	Excellent	Good	Excellent	Excellent	Excellent
Alkali Resistance	Good	Good	Fair	Excellent	Excellent	Excellent
Steam Resistance	Fair	Fair	Poor	Good	Excellent	Excellent
Minimum Usable Temp	-65°F -54°C	-65° F -54°C	-120°F -85°C	-110°F -79°C	-35°F -37°C	-35°F -37°C
Maximum Usable Temp.	300° F 150°C	500° F 260°C	450° F 232°C	500° F 260° C	550° F 288°C	560°F 293°C
Color	Black	Black	Red	White	Black	

## Viton PTFE, and Silicone Sheets

Viton, PTFE, and red Silicone sheets are now available in 12" x 12" sheets in the thicknesses listed below. These sheets are particularly well suited for cutting your own gaskets and seals. Other materials and thicknesses are available on special request.

Part No.	Description	Price
VS-0	1/16" Viton	
VS-1	1/8" Viton	
VS-2	1/4" Viton	
VS-3	1/32" Viton	
TS-0	1/32" PTFE	
TS-1	1/16" PTFE	
TS-2	1/8" PTFE	
TS-3	1/4" PTFE	
S1-0	1/16" Red Silicone	
S1-1	1/8" Red Silicone	
S1-2	1/4" Red Silicone	
S1-3	1/2" Red Silicone	
S1-4	1/32" Red Silicone	

