

# V75SR

FDA-compliant, steam resistant fluoroelastomer



## Description

V75SR is a peroxide-cured FDA-compliant, fluoroelastomer (FKM) material developed to withstand steam-in-place (SIP) and clean-in-place (CIP) procedures within pipe work and vessels.

Unlike other FDA-compliant fluoroelastomers, V75SR provides superior steam resistance, ideal for use in Stage II Sterilization processes which require exposure to steam up to 200°C (392°F).

V75SR can be used for all types of applications requiring FDA, 3A and USP Class VI compliance. It is suitable for use in all product contact applications including dry, aqueous and fatty media.

Available in any sized O-ring (fully moulded up to 2m/6.5ft internal diameter) and custom designed components.

## Key Attributes

- ▶ Excellent steam resistance up to 200°C (+392°F)
- ▶ Superior resistance to a wide range of solvents & chemicals
- ▶ Superior mechanical properties
- ▶ FDA compliant - extraction tested to CFR 21 § 177.2600 (e,f)
- ▶ 3A Sanitary Standard 18-03 Class 1 compliant
- ▶ Free from Animal Derived Ingredients

## Typical Applications

Recommended for use hygienic sealing in pharmaceutical, bio-analytical and food processing applications.

- ▶ O-rings
- ▶ Gaskets
- ▶ Hygienic/sanitary couplings & pipe connectors
- ▶ Ball segment valve seals (inflatable seals)

## Other materials available

V70SW steam resistant FDA-compliant FKM grade (white)  
FDA, USP & 3A compliant materials for food and pharmaceutical applications



## Typical Material Properties

Property	ASTM	ISO	Value
Material Type	FKM	FPM	Terpolymer
Colour			Black
Hardness: (°IRHD)	D1415	ISO48	71
Tensile Strength (MPa)	D412	ISO37	18
Elongation at break (%)	D412	ISO37	189
Modulus (100%)			7.4
Compression Set: 72 hrs @ 200°C (392°F)	D395	ISO815	20%
Minimum Operating Temperature			-10°C (+14°F)
Maximum Operating Temperature			+200°C (+392°F)

**SPECIAL NOTE:** This information is to the best of our knowledge accurate and reliable. However, PPE Ltd makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use, especially in applications where their failure may result in injury and/or damage. It should also be noted that all elastomeric parts have a finite life, therefore a regular program of inspection and replacement is strongly recommended. The material properties above should not be used for specification purposes.

