

V70SW

FDA-compliant, steam resistant fluoroelastomer

Description

V70SW 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 fluoroelastomer, V70SW provides superior steam resistance, ideal for use in Stage II Sterilisation processes which require exposure to steam up to 200°C (392°F).

V70SQ can be used for all types of applications requiring FDA and USP Class VI compliance. It is suitable for use in all product contact applications including dry, aqueous and fatty media.

Key Attributes

- Excellent steam resistance up to 200°C
- Superior resistance to a wide range of solvents & chemicals
- Superior mechanical properties
- FDA compliant – extraction tested to CFR 21 § 177.260 (e,f)
- USP Class VI compliant
- 3-A 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

V75SR steam resistant FDA-compliant FKM grade (black)
Perlast®G74S steam resistant perfluoroelastomer FFKM (white)



Typical Material Properties

Property	ASTM	ISO	Value
Material Type	FKM	FPM	Terpolymer
Colour			White
Hardness (°IRHD)	D1415	ISO48	70
Tensile Strength(MPa)	D412	ISO37	15.8
Elongation at break (%)	D412	ISO37	260
Modulus (100%)			6.0
Compression Set: 72 hrs@200°C (392°F)	D395	ISO815	12%
Minimum Operating Temperature			-10°C (+14°F)
Maximum Operating Temperature			+200°C (+392°F)

Special Note: This information is the best of our knowledge accurate and reliable. However, Abbey Seals International 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 programme of inspection and replacement is strongly recommended. In non-black grades of elastomer, it is possible to observe slight variations in colour. This is normal and is inherent in the par; it is not indicative of foreign matter. These colour variations are not expected to adversely effect the performance of the part. The material properties above should not be used for specification purposes

