

Fluorosilicone Elastomer

AFS®-R-H2000

Composition

copolymer of methyl-(3,3,3-trifluoropropyl)siloxane, small amount of vinyl monomer and other organic silicon monomers.

Characteristics

It is a high temperature vulcanized elastomer with high molecular weight. This material unites good performances of FKM and VMQ as followings, therefore it can be used as seal materials in special positions with requirements of resistance to high and/or low temperature, oil and other mediums.

1. Wide application temperature range: -70°C~200°C;
2. Good resistance to solvent and oil like fluoro rubber;
3. Strong elongation retention at high temperature like silicone rubber;
4. Good insulation;
5. High selective permeability meets requirements of environmental protection.

Items	Index		
	H2000	H4000	H6000
Fluorine content (mol%)	45~55	30~40	60~90
Appearance	Clear or pale-yellow transparent gum, no visible impurities		
Density (g/cm ³)	1.29~1.30		
Molecular weight (10,000)	40~130		
Content of vinyl group (wt%)	0.05~1.0		
Content of volatile components (150°C×3hr)	<3%		

Application

1. Aviation industry: seals in aircraft to resist to fuels and/or lubricants, such as O-rings, spacers, integral tank sealing, sensor material, diaphragms and clips for spacers.
2. Auto industry: used as sealing rings, grease seals, diaphragms, pipes and valve-linings for various types of vehicles.
3. Petrochemistry industry: sealing parts used in pump, valve and oil tank, which are used under high/low temperature and chemical circumstance.
4. Medical and health care: used in manufacturing medical apparatus or instruments, artificial visceral organs, such as medical pipes, medical hoses for fluids and artificial valves.

Package

Complex bags made with aluminum and plastic. Each sack is 10 kg. 2 sacks in 1 carton.

Storage

Shall be stored in dry and ventilated places at room temperature (25°C). Validity is 2 year.

Transportation

Transport it as non-dangerous cargo.

Attention:

1. The product shall be kept neutral, avoid being contacted with acid, alkaline substance.
2. The product can flow under its own weight. Keep it in good condition of packing during transportation and application in order it not to flow out.