

Fluorosilicone Elastomer

AFS®-R-H1000

Composition

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

Characteristics

It is a high temperature vulcanized elastomer with high molecular weight. It has integrated advantages that both the silicone rubber and fluororubber have.

1. Wide application temperature range (-60°C~200°C); 2. Excellent resistance to fuel, oil, solvent and chemical medium; 3. Keeping high tensile force retention at high temperature which is like silicone rubber; 4. Good insulation; 5. High selective permeability meets requirements of environmental protection.

Therefore it can be used as seal materials in special condition with requirement of resistance to high and/or low temperature, oil and other chemical mediums.

Items	Index				
	H10X4	H10X5	H10X6	H10X7	H10X8
Appearance	Clear or pale-yellow transparent gum, no visible impurities				
Density (g/cm ³)	1.29~1.30				
Molecular weight (10,000)	20~40	41~60	61~90	91~130	131~180
Content of vinyl group (wt%)	0.05~1.0				
Content of volatile components (180°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.