

**VERTEX F 16** is an FFKM 90Sh-A compound developed for High Temperature and RGD Resistance.

### Material Data

S.N	Description	ASTM Test Method	Unit	Spec
1.	Hardness	D2240	Shore A	85±5
2.	Tensile Strength	D412	MPa	16 (Min)
3.	Elongation @break	D412	%	75 (Min)
4.	Compression Set 70hrs@200°C	D395	%	35 (Max)

The material has outstanding chemical resistance to aggressive media such as acids, caustics, ketones, aldehydes, esters, ethers, alcohols, solvents, sour gases and hydrocarbons. However, it is not recommended for use in severe aqueous and amine applications. Do not use any "VERTEX F" Series grades with molten alkali metals.

### Chemical Resistance Data

Fluid	Volume swelling	Fluid	Volume swelling	Fluid	Volume swelling
Inorganic acids	<10%	Water/Steam	<10%	Alcohols	<10%
Organic acids	<10%	Ketones	<10%	Hydrocarbons	<10%
Alkalies	<10%	Esters	<10%	Sour gas	<10%
Amines(RT)	<10%	Ethers	<10%	Lubricants	<10%
Hot amines (>70°C)	30-50%	Aldehydes	<10%	Fluorinated fluids	30-50%

**Note:** This information is to the best of our knowledge accurate and reliable and it does not necessarily indicate the end product performance. Hence, it is the customer's responsibility to evaluate the parts prior to use, especially in applications where the failure may result in injury and or damage.

\*The temperature range mentioned above may be vary with seal design and application parameters.

### Features & Benefits

Excellent high temperature resistance

Higher resistance to wide range of fluids under pressure

Very good chemical compatibility

Unrivalled Chemical resistance

Operating temperatures from -20°C to +300°C\*

### Applications

Valves

Pumps

Mechanical seals

Compressors reactors

### Product Range

O rings

Gaskets

Diaphragms

Pump housing



No 66 & 77, Perungudi  
Industrial Estate, Chennai - 96, India



[www.ismat.in](http://www.ismat.in)



+91 44 24961147



[inquiry@ismat.in](mailto:inquiry@ismat.in)

