

# Fluorosilicone Rubber

Technical Data Sheet

SX0325-2022-03 V2

## Sanesil FS2200U Series

Description: Fluorosilicone rubber master-batch compound with very low compression set and good oil resistance, vulcanizing on heating after addition of a vulcanizing agent.

### Special properties:

- Excellent oil resistance and outstanding polar solvent resistance
- Easily processed and easily pigmented
- High resilience
- Very low compression set
- Good heat stability, up to 230°C
- Good oil resistance

### Main applications:

- Mainly used in automobile industry, aerospace industry, petroleum chemical industry and military industry.
- Suitable for applications as sealing materials for petroleum oil, lubricant oil, hydraulic oil, transformer oil, and apolar chemical reagents in low temperature and/or high temperature environments.
- Suitable to produce molded, extruded and calendered parts including O-rings, gaskets, fuel-line quick-connect seals, oil seals, sealing strips, diaphragms, membranes, valves, hydraulic and electrical clamp blocks.

### Characteristics:

Type (according to GB/T 5576-1997).....FVMQ

Natural color.....translucent, smooth surface, no impurities

### Curing Condition:

After addition of 1.2% of 2.5-dimethyl bis -(tertiobutyl peroxy) 2.5-hexane (45%) and vulcanization for 5 min. at 170°C, with post curing at 200°C×4.

### Mechanical properties:

Item	Testing	Unit	Technical date					
			FS2230U	FS2240U	FS2250U	FS2260U	FS2270U	FS2280U
Density	ASTM D792	g/cm <sup>3</sup>	1.40	1.42	1.43	1.45	1.47	1.48
Hardness Shore A	ASTM D2240		30	39	50	59	71	79
Tensile Strength	ASTM D412	MPa	9.7	10.4	10.4	10.1	10.0	9.1
Elongation	ASTM D412	%	498	410	358	295	254	200
Tear Strength	ASTM D 624 B	KN/m	17	17	18	17	18	17
Rebound resilience	ASTM D1054-2002	%	30	27	26	26	26	25

Compression Set (22hr/177°C)	ASTM D395 Method A	%	7.5	6.2	6.8	6.9	6.9	7.4
Fuel C Volume Swell (23°Cx70hr)	Hardness change		-6	-8	-10	-11	-11	-11
	Tensile strength change	%	-53	-52	-40	-36	-33	-27
	Elongation change	%	-45	-36	-30	-26	-21	-19
	Volume change	%	+25	+20	+18	+17	+16	+15
903# Oil Volume Swell (23°Cx70hr)	Hardness change		-7	-6	-6	-6	-5	-3
	Tensile strength change	%	-30	-28	-25	-19	-18	-18
	Elongation change	%	-26	-25	-20	-13	-14	-14
	Volume change	%	+3.5	+3.0	+3.0	+3.0	+2.5	+2.1

**Packaging:** 25 kg per cardboard boxes.

**Storage and shelf life:**

FS 2200 U series may be stored in its original unopened packaging at a temperature below 40°C for up to 12 months as from the date of manufacture.

For More Product Information, Please Visit Our Website: [www.sanezen.com](http://www.sanezen.com)

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