

SiSiB[®] FSE9800

LOW COMPRESSION SET FLUOROSILICONE RUBBER

INTRODUCTION

SiSiB[®] FSE9800 fluorosilicone is a base compound to be considered for applications exposed to non-polar fluids and solvents including fuels, oils and greases.

KEY FEATURES

- Excellent oil resistance and outstanding apolar solvent resistance
- Retains properties over a wide temperature range of -60°C to 230°C
- Low compression set
- Easily processed & easily pigmented

TYPICAL PHYSICAL PROPERTIES

Properties / Product	FSE9830	FSE9840	Method
Density g/cm ³	1.42	1.43	ASTM D792
Hardness Shore A	30	40	ASTM D2240
Tensile Strength (MPa) Die C	9.0	10.0	ASTM D412
Elongation at Break (%) Die C	300	350	ASTM D412
Tear Strength (KN/m) Die B	20	25	ASTM D624
Compression Set (22h/177°C)/%	8	7	ASTM D395
Volume Change (Reference Fuel B) (23°C x 70hr)	22	20	ASTM D471

Properties / Product	FSE9860	FSE9880	Method
Density g/cm ³	1.48	1.50	ASTM D792
Hardness Shore A	60	80	ASTM D2240
Tensile Strength (MPa) Die C	10.5	9.0	ASTM D412
Elongation at Break (%) Die C	300	175	ASTM D412
Tear Strength (KN/m) Die B	25	18	ASTM D624
Compression Set (22h/177°C)/%	8	9	ASTM D395
Volume Change (Reference Fuel B) (23°C x 70hr)	19	19	ASTM D471

Curing agent: 0.55 pbw 2,5-dimethyl-2,5-di(tert-butylperoxy)hexane (DHBP).

Curing conditions: 10min/170°C, post-curing: 4h/200°C in hot air

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APPLICATIONS

SiSiB[®] FSE9800 is used for low compression molded, extruded, and calendered parts, like O-rings, gaskets, fuel-line quick-connect seals, oil seals, sealing strips, diaphragms, membranes, valves, hydraulic and electrical clamp blocks.

SiSiB[®] FSE9800 is widely used in automobile industry, aerospace industry, petroleum chemical industry and military industry.

PACKING AND STORAGE

SiSiB[®] FSE9800 fluorosilicone is supplied in 25kg boxes.

In the unopened original container it has a shelf life of one year in a dry and cool place.

NOTES

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability. We disclaim liability for any incidental or consequential damages.

Please send all technical questions concerning quality and product safety to: support@SiSiB.com.