

SiSiB[®] FSE8100

GENERAL PURPOSE FLUOROSILICONE RUBBER

INTRODUCTION

SiSiB[®] FSE8100 fluorosilicone is a base compound to be considered for applications exposed to non-polar fluids and solvents including fuels, oils and greases.

KEY FEATURES

- Economic fluorosilicone base with satisfactory performance cost ratio
- Excellent oil resistance and outstanding apolar solvent resistance
- Retains properties over a wide temperature range of -60°C to 230°C
- High resiliency

TYPICAL PHYSICAL PROPERTIES

| Properties / Product | FSE8130 | FSE8140 | Method |
|---|---------|---------|------------|
| Density g/cm ³ | 1.42 | 1.43 | ASTM D792 |
| Hardness Shore A | 30 | 40 | ASTM D2240 |
| Tensile Strength (MPa) Die C | 6.0 | 7.0 | ASTM D412 |
| Elongation at Break (%) Die C | 165 | 225 | ASTM D412 |
| Tear Strength (KN/m) Die B | 14 | 20 | ASTM D624 |
| Compression Set (22h/177°C)/% | 12 | 11 | ASTM D395 |
| Volume Change (Reference Fuel B) (23°C x 70hr) | 22 | 20 | ASTM D471 |

| Properties / Product | FSE8160 | FSE8180 | Method |
|---|---------|---------|------------|
| Density g/cm ³ | 1.48 | 1.50 | ASTM D792 |
| Hardness Shore A | 60 | 80 | ASTM D2240 |
| Tensile Strength (MPa) Die C | 7.0 | 5.5 | ASTM D412 |
| Elongation at Break (%) Die C | 200 | 125 | ASTM D412 |
| Tear Strength (KN/m) Die B | 20 | 15 | ASTM D624 |
| Compression Set (22h/177°C)/% | 12 | 10 | 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[®] FSE8100 is used for economic 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.

PACKING AND STORAGE

SiSiB[®] FSE8100 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.