

# VGD10-33SH

## Silicone Rubber Sponge General Purpose Grade

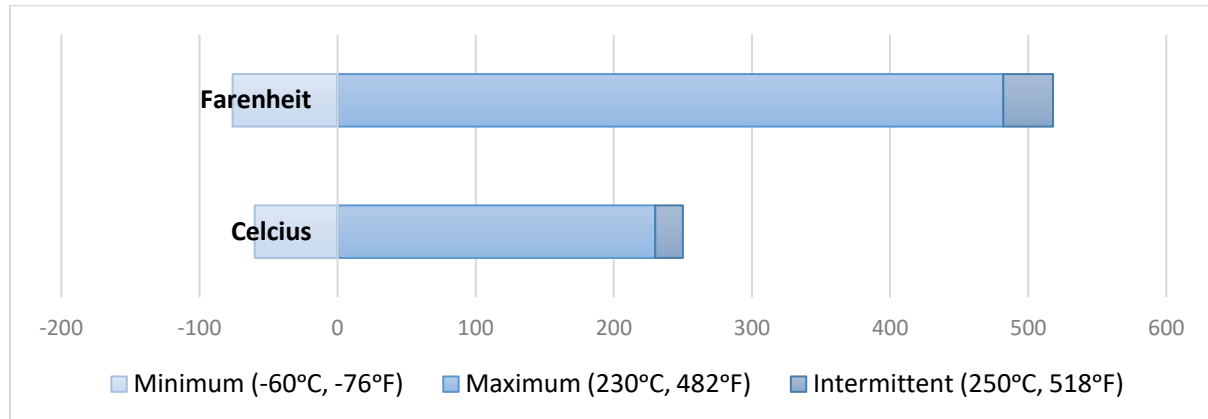
### Material

Closed Cell Silicone Sponge

### Available Grades

VGD10SH, VGD16SH, VGD20SH,  
VGD24SH, VGD27SH, VGD33SH

### Temperature Range



### General Information

The material should not be compressed by more than 50% of its original thickness, as the cells may break under such compression. The maximum compression recommended is 30% of initial thickness. Sealing with less than 30% compression helps reduce compression set and promotes product longevity.

The density range in **white** has been approved by the WRAS (Water Regulations Advisory Service) for use in contact with potable water at temperatures up to 85°C (185°F).

These products meet the flammability requirements of FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv) and (a)(1)(v) horizontal flammability test and Automotive Standard PART 571FMVSS302.

The sponge is closed cell with low water absorption and dust ingress protection up to IP65, subject to design.

### Environmental Resistance

Silicone Rubber Products have an excellent resistance to:

- Ozone
- Oxidation
- Ultraviolet Light
- Corona Discharge
- Cosmic radiation
- Ionising radiation
- Weathering in general

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### Availability Format

- Supplied in rolls or individual sheets
- Widths up to 1000mm
- Pressure sensitive adhesive backing
- Punched, CNC cut gaskets
- Full range of standard colours
- Capability to colour match

### Typical Applications

- Automotive
- Electronics
- Energy
- Construction
- Heating and Ventilation (HVAC)
- Industrial
- Insulation
- Lighting
- Marine

### General Characteristics

Test	Result	Standard
Brittle Point	-80°C (-112 °F)	ASTM D746
Limiting Oxygen Index	24.0 %	BS 2782 Part 1
Thermal Conductivity	0.24 W.m-1.K.1 / 6.4x10 <sup>-2</sup> W.m <sup>-1</sup> .K <sup>-1</sup>	BS 874 Part 2
Radiation Resistance	>105Grays (107Rads) typical	

### Accreditations

- FAR 25/JAR25/CS 25 Appendix F, Part 1, (a)(1)(iv) (a)(1)(v) horizontal flammability test
- If tested would meet UL94HB
- Automotive standard PART 571 FMVSS 302
- REACH and RoHS compliant
- Capable of meeting ASTM D1056 2A2; ASTM 6576 Grades B&C

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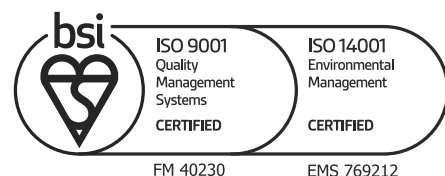
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Registered in England & Wales

REV 02 – Last Updated: 24/04/24



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### Mechanical Properties

Property	Units	VGD10SH	VGD16SH	VGD20SH	VGD24SH	VGD27SH	VGD33SH	Test Method
		Typical Value						
<b>Density *</b> (Measured on 25mm cord sample)	Kg.m <sup>3</sup>	200	25	320	400	460	550	ISO 845 (ASTM D3574)
	Lb.ft <sup>3</sup>	12.5	15.6	20	25	28.7	34.3	
<b>Hardness **</b>	Shore OO	35±5	47±5	55±5	65±5	70±5	80±5	ASTM D2240
	Shore A	<5	5	15	17	24	30	
<b>Compression Stress 40% Strain ***</b>	kPa	50	75	120	165	230	470	ISO 3386 Part 1, 2 ASTM D1056
	PSI	4.6	5.0	8.3	11.9	17.4	34.8	
<b>Tensile Strength</b>	MPa	0.6	0.6	0.75	0.75	1.5	2.0	ISO 1798 ASTM D412
	PSI	87	87	108	108	217	290	
<b>Elongation to failure</b>	%	140	150	120	120	130	130	ISO 1798 ASTM D412
<b>Compression Set 50% Compression 24 hrs recovery, 22hrs 70°C (158°F)</b>	%	15.0	2	12.0	10.0	10.0	9.5	ISO 1856
<b>Set 50% Compression 27 hrs recovery, 22hrs 100°C (212°F)</b>	%	18.0	10	14.0	12.0	12.5	12.0	ASTM D1056
<b>Water Absorption</b>	%	<5	0.2	<5	<5	<5	2	ASTM D1056

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