

# VGD16-24SH AFS 1682A

## Ministry of Defence AFS 1682A Specification Silicone Rubber Sheet

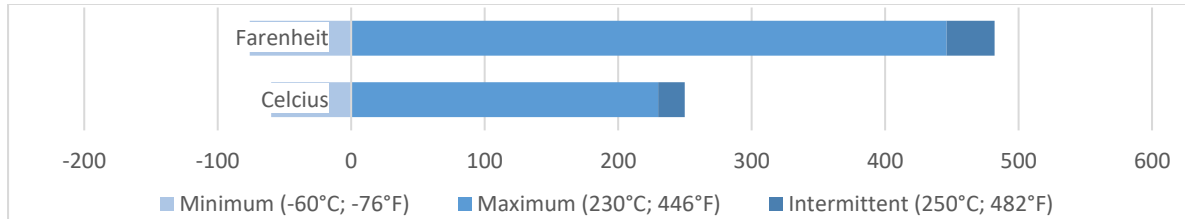
### Material

Closed Cell Silicone Sponge

### Available Grades

VGD16SH, VGD24SH AFS Grades

### Temperature Range



### General Information

These grades of cellular silicone elastomers have been specially formulated to meet the Ministry of Defence AFS 1682A Specification. They are particularly suited for use in high temperature seals and Gaskets.

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. These products should not be compressed by more than 50% as this will destroy the cell structure.

### Material compliance

- 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 571MVSS302
- REACH and RoHS compliant

### Availability Format

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

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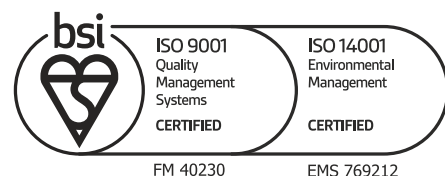
**Viking Extrusions Ltd** – Ivy Arch Road, Worthing, West Sussex, BN14 8BX, UK

Company Number: 2634482UK

VAT Number: GB587651394

Registered in England & Wales

REV 01 – Last Updated: 17/06/24



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### Environmental Resistance

Silicone Rubber Products have an excellent resistance to:

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

### Typical Applications

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

### Material Properties

Property	Units	Typical Value		Test Method
		VGD16SH AFS 1682A	VGD24SH AFS 1682A	
Density*	kg/m <sup>3</sup> (lb./ft <sup>3</sup> )	260 (16.2)	400 (25)	BSENISO 845
Compression Stress 40* Strain	kPa (PSI)	95 (13.8)	175 (25.4)	BSENISO 3386 Part 1, 2 ASTM D1056
Tensile Strength	MPa (PSI)	1.3 (188.6)	1.7 (246.6)	BSENISO 1798
Elongation to Failure	%	200	150	BSENISO 1798
Compression Set 25% Compression 27hrs, Recovery, 48 hrs 150°C (302°F)	%	5	6	BSENISO 1856
Compression Stress 40% strain Change after Heat Age 168 hours @ 150°C	kPa (PSI)	98 14.2	185 (26.6)	BSENSIO 3386 Part 1, 2
Compression Set (as above) Change after Heat Age 168 hours @ 150°C	%	2	3	BSENISO 1856

These figures are only intended as a guide and should not be used in preparing specifications.

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### General Characteristics

Test	Result	Standard
Brittle Point	-80°C (-112 °F)	ASTM D746
Limiting Oxygen Index	24.0 %	BS 2782 Part 1
Thermal Conductivity	$6.4 \times 10^{-2} \text{ W.m}^{-1}.\text{K.1}$	VDE 0304
Radiation Resistance	>10 <sup>5</sup> Grays (10 <sup>7</sup> Rads) typical	

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