

# General Purpose Silicone Sheet

## FOOD GRADE QUALITY SILICONE - 60° SHORE A

PROPERTY	TEST METHOD	UNITS	SPECIFICATION LIMITS	TYPICAL VALUE
HARDNESS	ASTM D2240 DIN 53505	°SHORE A	60° (+/- 5)	62
TENSILE STRENGTH	BSISO 37 DIN 53505 Die S1 ASTM D412 Die C	MPa Psi	5.5 min 795 min	10.5 1523
ELONGATION @ BREAK	BSISO 37 DIN 53505 Die S1 ASTM D412 Die C	%	250 min	360
TEAR STRENGTH	BS ISO 34-1 method C ASTM D624 die B	N/mm lb/in	10.0 min 57.0 min	14.7 83.9
COMPRESSION SET 24hrs @ 150° C	BS 903 PT A6 TYPE B DIN 53517 type II	%	30 max	17
THERMAL CONDUCTIVITY	VDE 0304		0.24 W.m <sup>-1</sup> .K <sup>-1</sup>	
TEMPERATURE RANGE	-60° C to +230° C (continuous)			
THICKNESSES	0.3, 0.5, 0.8, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0, 6.0, 10.0mm.			

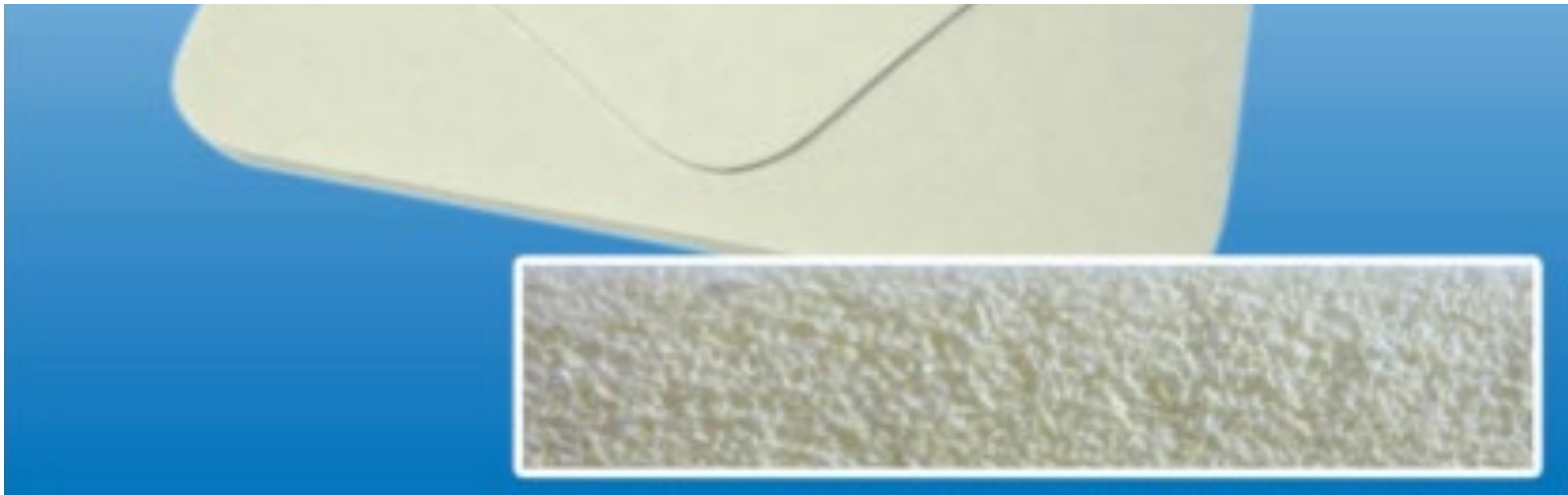
These articles have been fully post cured and all the ingredients used to produce them are listed in FDA 21 CFR 177.2600. Our materials are manufactured in accordance with FDA Guidelines set out in 21 CFR 177.2600 and the manufactured materials have been tested to, and comply with the tests listed in 21 CFR 177.2600 (d) to (h). This makes them suitable for contact with dry, aqueous and fatty foods defined by the FDA. As stated in 21 CFR 177.2600 it is recommended that the manufactured article is thoroughly cleansed prior to first use in contact with food. Also complies with the BFR regulations for contact with foodstuffs.

These products meet the flammability requirements of FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv) & (a)(1)(v) horizontal flammability tests.

WRAS APPROVAL NO: 0806508 – Approved for cold & hot potable water use up to 85° C in accordance to BS 6920.



# SPONGE SILICONE SHEET



Jehbco Silicone Sponge is predominately closed cell and has an integral surface skin that leads to very low Water absorption.

**General Characteristics:** this product combines properties of resilience; general inertness; high compressibility; acoustic insulation; low compression set; stability over a wide temperature range; unaffected by aging and degradation from sunlight and ozone.

**Typical Applications:** It is due to its combined properties that our Silicone Sponge Sheet can be used in thermal insulation; high and low temperature acoustic insulation; and high and low temperature gaskets and seals.

**WRC Approved for use with cold potable water and hot water up to 85° C. (Listing No. 9403505)**

## TECHNICAL DATA

PROPERTY	NORM	TYPICAL VALUE
TEMPERATURE RESISTANCE		-60°C / +200°C CONTINUOUS
COMPRESSION SET (%) 22hrs@ 100° C 25% COMPRESSION	BS EN ISO 1856 'A' 1857	15 % MAX
COMPRESSION STRESS @ 40% STRAIN	BS 4443 PART 1 METHOD 5B	90 (+/_ 40)
TENSILE STRENGTH	BS 903 PART 2	TYPICAL VALUE 1.3 Mpa
ELONGATION AT BREAK (%)	BS 903 PART A2 15% MAX	TYPICAL VALUE 207%

## PHYSICAL DATA

DENSITY (Kg/m <sup>3</sup> )	BS 4443 PART A1 METHOD 1	300 (+/_ 100)
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\* Standard Colour: Off White – other colours possible upon request.

\*\* Available in thicknesses of: 1.5, 3.0, 5.0, 6.0, 8.0 and 10.0mm.

# REINFORCED SILICONE SHEET



## **FIBREGLASS REINFORCED**

“DSP1564” & “DSP7628”

**AVAILABLE IN: 0.38mm, 1.5mm, 3.0mm and 6.4mm Thick.**

Fibreglass reinforced silicone sheeting is typically used for gaskets or seals requiring a resilient, non-porous sheet material suitable for operating temperatures from -60° to 260°C but is not limited to such applications.

The material is resistant to deterioration by weathering and engine oil and remains flexible over the temperature range noted. Fibreglass reinforced silicone sheet is available in many different thicknesses. Generally the DSP1564 Grade is used in thicknesses greater than 0.8mm thick and the DSP7628 is used in thicknesses 0.8mm thick or less.

## **FEATURES**

**Excellent Gasket Material; Extreme high and low temperature resistant; UV/Ozone Resistant; Non-Toxic; Chemically Inert; All ingredients FDA approved; Low Compression Set; and Fungus Resistant.**

PHYSICAL PROPERTIES	DSP1564	DSP7628
Shore A	70 (+/-10)	70 (+/-10)
Tensile Strength, psi (fibreglass + Silicone)	1300	1100
Fibreglass Thickness	0.356 mm	0.178 mm
Fibreglass Weight (oz per sq yd)	12.5	6
Fibreglass Breaking Strength (warp/fill) psi	400 x 350	250 x 200
Plane Weave Thread Count	20 x 18	44 x 32
Fibreglass Diaphragm Burst Strength (psi)	750	400
Compression Set (%)	35 Max	35 Max
Temperature Range	-60° to 260°C	-60° to 260°C
Available in	1.5mm, 3.0mm and 6.4mm thick.	0.38mm thick

\*\* The given values are typical properties and are provided for information only. They should not be used to set specification requirements. It is up to the end user to determine whether the material is suitable for the intended application.



# HIGH TEAR STRENGTH SILICONE SHEET (VACUUM BLANKET)



SILICONE SPECIALISTS

## PHYSICAL PROPERTIES

SHORE (A) HARDNESS	50 (+/- 5)
TENSILE STRENGTH	1300 psi
ELONGATION AT BREAK	800 %
MODULUS AT 300% ELONGATION	400 psi
TEAR STRENGTH	240 psi
COMPRESSION SET	19 %

## CHARACTERISTICS:

The High Strength Silicone Sheet has an amazing reusability and durability. It endures temperatures from -60° to 230° C. It has excellent resistance to weathering, ozone, hot water, low pressure steam, alcohols and diethelyene glycol.

Sheets are 1800mm Wide with Thicknesses of 1.6mm and 3.2mm. The standard colour is Grey.

Silicone is a quality, long lasting product that is ideal for many different industries. Its properties are second to none, with a wide temperature range of -40 degrees C to +250 degrees C continuous. The product is UV resistant which makes it very stable even under the harshest conditions.

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# SPONGE SILICONE SHEET WITH ADHESIVE BACKING



## SILICONE SPECIALISTS

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