



SPECIFICATION SHEET

AL16 SILICONE RUBBER SPONGE (Extruded)

Desc.	Standard	Value	Unit
Density *	BSENISO 845	250 +/- 40	Kg/m3
Shore Hardness **	ASTM D2240	42 +/- 5	OO
Compression Stress 40% Strain ***	BSENISO 3386 Pt's 1 & 2	90 +/- 40	kPa
Tensile Strength (Min)	BSENISO 1798	0.5	MPa
Elongation to Failure (Min)	BSENISO 1798	100	%
50% Compression Set (22hrs/70°C) – After 24hrs	BSENISO 1856	15 (Max)	%
50% Compression Set (22hrs/100°C) – After 24hrs	BSENISO 1856	15 (Max)	%
Environmental		CFC Free	
Temperature Range (Constant)		-60 to +200	°C

* Measured on 25mm diameter cord. Density of different sizes will vary from the figure stated.

** Hardness measured on 10mm thick sample. At less than 10mm hardness will increase with density.

*** Compression stress measured on samples as specified by BSENISO 3386. Result will vary from that quoted on samples of varying size.

General Information

Product meets the flammability requirements of FAR 25/JAR25/CS 25 Appendix F, Part 1(a)(1)(iv) and (a)(1)(v) horizontal flammability test and Automotive Standard Part 571FMVSS302.

The above figures are average values and should be considered as guidelines not specifications. While reasonable care has been taken to ensure that this data is representative, Alanto Ltd does not warrant or otherwise guarantee, expressly or impliedly, the suitability, accuracy, reliability or completeness of the information.

We recommend evaluation prior to use to ascertain the suitability of the material for the application.

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SPECIFICATION SHEET

AL16 SILICONE SPONGE – FDA (Food Grade)

Desc.	Standard	Value	Unit
Density (Imperial)	ASTM D792	23.1	lbs/ft ³
Density (Metric)	ASTM D792	370	kg/m ³
Resilience (%)	ASTM D2632	52	
Specific Gravity	ASTM D792	0.37	
Compression Set 25% deflection, 0.5hr rest (22hrs @ 150°C)	ASTM D395	16.24	%
Compression set 50% deflection, 24hrs rest (22hrs @ 150°C)	ASTM D395	13.1	%
Compression Set 50% deflection, 24hrs rest (22hrs @ 100°C)	ASTM D395	5.56	%
Compression Deflection 25%	ASTM D1056	4 (27.6)	psi (kPa)
Compression Deflection 50%	ASTM D1056	13 (89.6)	psi (kPa)
Low temp. brittleness (3 mins @ -55°C)	ASTM D746	No cracks	
Temperature Range		-55 to 200	°C
Standard Colour		White	

Properties obtained on 25.4mm round extruded profiles, hot air vulcanized (HAV) 10 minutes at 240°C (482°F). Post-cured for 4 hours at 200°C (392°F).

General Information

The cellular profiles are generally used in static applications such as gaskets. 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.

FDA Information

United States FDA Regulations :

21 CFR Section 175.300 : Resinous and polmentric coatings

21 CFR Section 177.2600 : Rubber articles intended for repeated use

European Union Food Regulations

This product can be used in compliance with German BfR Recommendation XV on Silicone for food contact (BfR-Emphelungen XV zu Silicone).

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SPECIFICATION SHEET

AL20 FDA Approved White Silicone Sponge Rubber

Desc.	Standard	Average Value	Unit
Density	BSENISO 845	400 +/- 60	Kg/m3
Tensile Strength	BSENISO 1798	0.85	MPa
Elongation to Failure	BSENISO 1798	215	%
50% Compression Set (22hrs/70°C) – After 24hrs	BSENISO 1856	15	%
Environmental		CFC Free	
Temperature Range (Constant)		-60 to +200	°C
Toxicity NES 713 iss.3		14	

General Information

- Low Compression Set
- Resistance to UV and weathering
- US FDA 21CFR 177.2600 compliant
- EC 1935/2004 compliant

Product meets the flammability requirements of FAR 25/JAR25/CS 25 Appendix F, Part 1(a)(1)(iv) and (a)(1)(v) horizontal flammability test and Automotive Standard Part 571FMVSS302.

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