



## Food Grade Sponge

FGS20 and FGS40 are food grade silicone sponge developed for seals and dampening on food production lines.

The FGS series from Advanced Materials Ltd is resistant to ultra-violet light, corona, arcing and ozone. It is excellent for vibration damping and for protecting and cushioning components. The materials exhibit a low degree of moisture absorption, therefore mechanical properties show little change, even after prolonged periods of immersion

These grades can be pigmented to pale pastel shades

From the FGS materials we can manufacture cord, strips, and very simple profiles.

Physical Properties Test/Info	FGS20 Medium	FGS40 Firm
Density	455Kg/m <sup>3</sup> (±75)	540Kg/m <sup>3</sup> (±75)
	28lbs/ft <sup>3</sup> (±5)	34lbs/ft <sup>3</sup> (±5)
Shore A	25	30
Compression Set (22 hrs @ 100°C)	<50%	<50%
Tensile Strength ASM D412 C	1.5Mpa	1.5Mpa
Temperature Range	-60°C to +200°C	-60°C to +200°C
Low Temperature Brittleness at -55°C ASTM D746-98	No Cracks	No Cracks
Elongation @ Break ASTM D412 C	295%	310%
Tear Strength ASTM D624 B	5 kN/m	5 kN/m

### **Meets FDA § 177.2600 & BfR XV Silicones regulations and EC 1935 2004.**

For Advanced Materials Ltd



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*Littlehampton, England 29<sup>th</sup> June 2022*

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Density and Compression Set will vary with thickness and shape. Please note that these materials are not recommended for long term service where steam pressure exceeds 50 psi. Shore A data is provided as an approximate indication only due to the limitations of testing. Figures given above are for guidance only and should not be used in preparing specifications. **E & O.E.**

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