

## Food Grade Sponge

A platinum cured range of food grade silicone sponge developed for seals and dampening on food production lines. The FGS series 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. All four grades can be pigmented to pastel shades. They can all be extruded to make cord, strips and simple profiles, with a skin on the outside.

| PROPERTIES<br>Test/Info                              | FGS20<br>Medium  | FGS40<br>Firm  | HTFGS20<br>Medium  | HTFGS40<br>Firm  |
|--|--|--|--|--|
| Density  | 455Kg/m <sup>3</sup> (±75)<br>28lbs/ft <sup>3</sup> (±5) | 540Kg/m <sup>3</sup> (±75)<br>34lbs/ft <sup>3</sup> (±5) | 455Kg/m <sup>3</sup> (±75)<br>28lbs/ft <sup>3</sup> (±5) | 540Kg/m <sup>3</sup> (±75)<br>34lbs/ft <sup>3</sup> (±5) |
| FDA  | ✓  | ✓  | ✓  | ✓  |
| Shore A  | 25   | 30   | 25   | 30   |
| Compression Set<br>(22 hrs @ 100°C)                  | <50%   | <50%   | <50%   | <50%   |
| Tensile Strength<br>ASTM D412 C                      | 1.5Mpa   | 1.5Mpa   | 1.5Mpa   | 1.5Mpa   |
| Temperature Range                                    | -60°C to +200°C  | -60°C to +200°C  | -60°C to +250°C  | -60°C to +250°C  |
| Low Temperature Brittleness<br>at -55°C ASTM D746-98 | No Cracks  | No Cracks  | No Cracks  | No Cracks  |
| Elongation @ Break<br>ASTM D412 C                    | 295%   | 310%   | 295%   | 310%   |
| Tear Strength<br>ASTM D624 B                         | 5 kN/m   | 5 kN/m   | 5 kN/m   | 5 kN/m   |

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

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.

