MATERIAL GUIDE

SOLID SILICONE RUBBER

CS30

HS235
High strength, 30 duro. Excellent tensile strength and tear resistance. Tougher and more resilient than general purpose grades. Meets ZZ-R-765, CL. 3B.

CS40, CS50, CS60, & CS70
General purpose materials. Durometers 40, 50, 60, & 70 respectively. All will meet ZZ-R-765 CL. 2A & 2B and AMS-3301, AMS-3302, AMS-3303 & AMS-3304 respectively.

HS275
High strength, 70 duro. Excellent tensile strength and tear resistance. Tougher and more resilient than general purpose grades. Meets ZZ-R-765, CL. 3B.

S50 (Black)

ES9855
Economical version of HS255 (not listed). 50 duro, high strength silicone.

EC102
Electrically conductive solid silicone. Carbon filled. Low amperage conductor; shields against RF and EM interference; protects against electrostatic discharge.

TC100
Thermally conductive silicone. Provides thermal and mechanical protection to electronic devices.

PRESS PADS
(Fiberglass Reinforced Silicone)

FR320

FR442
Specially formulated for thermal stability and long life under extended dwell times. Resists reversion, softening and outgassing more than general purpose material.
SILICONE SPONGE AND SILICONE FOAM

PRODUCT NO:  

- **R70M** General Purpose Medium Grade  
The basic, general purpose closed cell silicone sponge - odorless, tasteless, non-toxic, non-corrosive, ozone and fungus resistant, high and low temperature resistant, excellent electrical properties, with low compression set and clean releasing surface. Smooth finish. Temperature range -100°F to +500°F. Meets AMS-3195, MIL-R-46089, and MIL-R-6130 TYPE 2, GRADE B & C.

- **R70F** General Purpose Firm Grade  
A general purpose closed cell silicone sponge. Its firm density makes it a natural choice in applications where R70M proves to be too soft. Smooth finish. Temperature range -100°F to +500°F. Meets AMS-3196, MIL-R-46089, and MIL-R-6130 TYPE 2, GRADE B & C.

- **R80M** Low Compression Set Medium Grade  
A closed cell silicone sponge especially formulated to have an extremely low compression set. Maintains resiliency even under extended compression. Smooth finish. Temperature range -100°F to +500°F. Meets AMS-3195, MIL-R-46089, and MIL-R-6130 TYPE 2, GRADE B & C.

- **R80S** Low Compression Set Soft Grade  
A soft grade counterpart of R80M, designed specifically for extra low compression set, softness, compressibility and resiliency. Remarkably light, having a density of only 20 lbs/ft³. Smooth finish. Temperature range -100°F to +500°F. Meets MIL-R-6130 TYPE 2, GR. 3 & C.

- **R60M** Flame Retardant Medium Grade  
A flame retardant closed cell silicone sponge intended for use where a combination of dust sealing, weather sealing, vibration dampening and uniform cushioning must be maintained over a broader temperature range. Smooth finish. Meets UL-94HF-1, AMS-3195, MIL-R-46089, and MIL-R-6130 TYPE 2, GRADE B & C.

- **R50M** Fiberglass Reinforced Closed Cell Sponge  
A closed cell silicone sponge with a fiberglass reinforcement. Has the compressibility of sponge plus dimensional stability in the x-y plane. The absence of stretch contributes to the consistent size and shape of die cut gaskets and eliminates outward extrusion under pressure. Smooth finish. Temperature range -100°F to +600°F.

- **R404F** Thermally Conductive Firm Grade  
A closed cell silicone sponge designed for use where heat transfer is necessary such as between printed circuit boards and heat sinks, decal transfer or applying heat activated adhesives. Smooth finish. Temperature range -100°F to +500°F.

- **SF12** Open Cell Foam Low Density, Flame Retardant  
A flame retardant open cell silicone foam. Has a UL-94VO flame rating. Extremely light-weight, having a nominal density of only 12 lbs/ft³. Can withstand a 2100°F flame for more than ten minutes without burning, in thicknesses down to 3/8". Generates very little smoke and releases no toxic fumes.

Closed cell sponges and foams can also be furnished with either a silicone or acrylic adhesive, protected by a peel off liner. The standard sheet size is 36" x 36", with smaller size sheets and strips available upon request. Other standard colors such as black, grey and white are also readily available. Gaskets, seals, cushions, pads, and washers will be diecut by Auburn in accordance with your designs and specifications.