



**International Silicone
Technologies**

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IST SILICONE COMPOUNDS

INTRODUCTION

We are an engineered silicone compound manufacturer, with over 20 years of experience formulating compounds for molders, hose makers, extruders, and many others. Compounds that are catalyzed and pigmented specifically for your processes and end applications. We can design or customize any compound to fulfill your requirements and/or specific needs. You can also choose from our many existing formulated items to meet Military, Federal, ASTM, AMS, BMS, PWA, 3A, FDA, NSF and many more specifications. Material can be supplied in uncured calendered rolls and preformed sheets.

We have a 2 day turnaround on all compounds.

WHY USE SILICONE?

Silicone is a unique elastomer with characteristics that provide high & low temperature stability, inertness, compression set resistance, weather resistance, 20-100 hardness range, easiness to color, and it contains electrical properties.

Please see the following for a list and a brief description of some of the compounds we offer.

Commercial Grade Compound- Provides temperature resistance. Most commonly used where physical properties are not critical.

General Purpose Grade Compound- Provides an excellent balance of physical, electrical and chemical properties over a wide range of temperatures. Most commonly used for its economical cost unless a special property of another class is needed. It is available in a 20-100 durometer and in any color needed. It has a temperature range resistance of -75°F to +500°F in vented systems and is capable of meeting A-A-59588-CL2A/B.

Medium Strength compound- Similar to General Purpose but it provides a lower specific gravity and the typical physical properties are improved. It is commonly used where better physical properties are required such as tear and tensile strength.

Fluorosilicone Grade Compound- Provides resistance to solvents, chemicals, and fuels. It is commonly used where extreme conditions exist and fuel & solvent resistance is required. It is available in a 20-80 durometer and in any color needed. It has a temperature range resistance of -65°F to +500°F and is capable of meeting AMS-R-25988 specification and many more.

Conductive Grade Compound- Provides protection against electrostatic discharges. It is a carbon black filled silicone that acts as low amperage conductor in electronic applications. It is most commonly used where electrical conductivity is required.

Tear Resistant Grade Compound – Provides high tear resistance when required. It can also be FDA for specific applications.

High Strength Grade Compound- Provides high elasticity, resiliency, and toughness. It is a strong, resilient and stretchable material. It is commonly used in seals and gaskets for the automotive and aerospace industries and is capable of meeting A-A-59588A CL3B.

High Temperature Resistant Grade Compound- This material provides temperature resistance up to 700°F. It also provides high temperature stability and excellent compression set. It is available in a 40-70 durometer and in any color.

FDA Grade Compound -This material complies with the Food & Drug Administration 21 CFR 177.2600 code therefore; it is commonly used on applications where parts are exposed to food. It can be made to almost any color needed and in a durometer from 20-100 durometer.

Extreme Low Comp Set Grade Compound- This material provides very low compression set on high-temperature applications. It is commonly used where compression set is vital. It is available in a 40-80 durometer and in any color.

Low Temperature Resistant Grade Compound- This material provides extreme low temperature flexibility over all rubbers at a sub zero temperature and it has excellent processing characteristics for a wide variety of molded, extruded and calendered parts where extreme low temperature flexibility is desirable. It is available in a 30-80 durometer in any color.

Silicone Sponge Compound- This material is a **lightweight** silicone rubber sponge that will provide uniform unicellular cross-sections. It withstands temperatures from a very low -120°f to a +500°f temperature. It is available in a soft, medium, firm and x-tra firm grade and in any color. It is also FDA Approved Title 21CFR 177.2600(a) approved, Flame Resistant and meets specification AMS3195, AMS3196 and UL94 VI FAR 25.853(a).

Depending on application requirements, most compounds can be made from a very soft 10 durometer to a very firm 100 durometer and they can also be made in a Peroxide Cure System or Platinum Cure System