

# Diversified Silicone Products, Inc.

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Data Sheets Are Available On our Website

[www.diversifiedsilicone.com](http://www.diversifiedsilicone.com)

## “Silicone Compounds”

### **Introduction:**

We have years of experience formulating silicone compounds for molders, extruders, hose makers, wire & cable manufacturers, and many others. We can design a compound to meet your molding conditions or your in-house specifications. You can also choose from our list of already formulated items to meet many of the popular government or military specifications. We can supply uncured compounds in almost any form you need from calendered rolls to preformed sheets or strips. We offer 2-3 day turnaround on most compounds. Please see the list below to get an idea of just some of the compounds we have to offer.

### **“CG” Grade**

This “Commercial Grade” compound is designed for applications that require many of the characteristics of silicone but can sacrifice some physical properties for a low cost alternative.

### **“LT” Grade**

This “Low temperature” grade of silicone is for extreme low temperatures (-103F) with modest physical properties. It can be molded or extruded. Available in hardness ranges from 25 to 80 durometer. (Shore “A”) Capable of meeting ZZR-765 CL1A/B

### **“GP” Grade**

This “GENERAL PURPOSE” compound has good compression set along with good physical properties. It can be molded or extruded. Available in hardness ranges form 25 to 80 durometer. (Shore “A”) Capable of meeting ZZR-765 CL2A/B

### **“HS/LT” Grade**

This “High Strength/Low Temperature” compound is for extreme low temperatures with high physical properties. It can be molded or extruded. Available in hardness ranges from 25 to 80 durometer. (Shore “A”) Capable of meeting ZZR-765 CL3A

### **“HS” Grade**

This “High Strength” grade of silicone is designed for applications where high strength, high tear, and good elongation are needed. It also has a very good temperature range that is common with all of our silicone compounds. It can be molded or extruded. Available in hardness ranges form 30 to 80 durometer. (Shore “A”) Capable of meeting ZZR-765 CL3B

### **“FS” Grade**

This “Fluorosilicone” grade is used in application where resistance to fuels, oils, and solvents are needed. It can be molded or extruded. Available in hardness ranges from 25 to 80 durometer. (Shore “A”) Capable of meeting MIL-R-25988 along with many other specifications.

### **“FS70/30” Grade**

This is a 70% Fluorosilicone / 30% Dimethyl silicone blend designed for the connector industry. This gives the material good resiliency, high dielectric resistance, and excellent fuel resistance. It can be molded or extruded. Available in hardness ranges from 40 to 80 durometer. (Shore “A”)

### **“COND” Grade**

This “Conductive” grade is a carbon black filled silicone material that will act as a low amperage conductor, and also provide protection against electrostatic discharge. It is available in OHMS resistivity as low as 2 OHM/CM. It can be molded or extruded. Available in hardness ranges from 65 to 80 durometer. (Shore “A”)

### **“RC” Grade**

This “Roller Covering” grade is an excellent compound for the manufacturing of silicone rollers. This material has a good compression set, along with high thermal stability. It has proven to provide excellent roll knitting, and good bonding.

### **“Plat” Grade**

This “Platinum Cure” silicone compound is for applications where extreme high physicals, moderate heat stability, and fast rate of cure are needed. It will meet all FDA requirements, and capable of meeting USP Class 6 standards. It can be molded or extruded. Available in hardness ranges from 40 to 80 durometer. (Shore “A”)

### **“HOSE” Grade**

This compound is designed for silicone “HOSE” manufacturers. Silicone hose is often used for automotive applications, where good oil, and coolant resistance are needed. This silicone compound has good green strength, high thermal stability. It can be molded or extruded and is also offered in uncured calendered rolls. Available in hardness ranges from 30 to 80 durometer. (Shore “A”) Capable of meeting SAE J20 hose specification for silicone.

### **“CMB” Grade**

“Color Masterbatches” are available to customers who are capable of making their own compounds.