

# Silicone Fluids

## Description

Basildon Chemicals Dimethyl Silicone Fluids known chemically as polydimethyl-siloxanes, are available in various viscosities ranging from 0.65cS to 60,000cS. They are clear, non-toxic, inert and odourless fluids.

## Product Features

Low viscosity – temperature change.  
Excellent thermal stability.  
Low surface tensions.  
High shear stability.  
Excellent dielectric properties.

Wide operational temperature range.  
Chemically inert to most materials.  
High compressibility.  
Excellent heat conductivity.  
Non-corrosive.

## Applications

BC Dimethyl Silicone Fluids are recommended for a wide variety of industrial applications. For example in polishes, as antifoam additives in paint and printing inks, in dashpots and damping devices, as liquid dielectrics and as release aids in a variety of applications.

## Method of Use

Due to the very broad scope of potential application uses, specific advice cannot be given in this datasheet. Please contact us for further information.

## Toxicity and Handling

Polydimethylsiloxane fluids have a very low order of toxicity and if handled with reasonable care present negligible skin irritation problems. Direct contact of the fluid with the eyes may cause slight irritation. See our Health and Safety sheet for more information.

## Storage and Shelf Life

Shelf life of the unopened container is 24 months from date of manufacture. If you wish to use the product after this time please contact us for approval.

## Typical Properties

Nominal Temperature °C	Viscosity Temperature coefficient	Specific Gravity at 25°C	Refractive Index at 25°C	Pour Point °C	Flash Point °C	Surface Tension dynes/cm cS at 25°C
0.65	0.31	0.760	1.375	-	-4	15.9
5	0.53	0.916	1.397	-100	135	19.7
10	0.56	0.934	1.399	-100	163	20.1
20	0.58	0.953	1.401	-84	232	20.8
50	0.59	0.963	1.402	-70	285	20.8
100	0.59	0.968	1.4040	-65	315	20.9
200	0.59	0.972	1.4031	-65	315	21.0
350	0.60	0.973	1.4032	-65	315	21.1
500	0.60	0.973	1.4033	-50	315	21.1
1,000	0.60	0.974	1.4035	-50	321	21.1
12,500	0.60	0.975	1.4035	-46	321	21.3
30,000	0.60	0.976	1.4035	-43	321	21.3
60,000	0.60	0.977	1.4035	-41	321	21.3

## Technical Service

Our technical and sales staff have considerable experience of the use of silicone products in a very wide variety of industries and the benefit of this experience is freely available to all our customers.

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