



## CHEMICAL NAME

Polymethylhydrogensiloxane, Methylhydrogenpolysiloxane, Methylhydrogen siloxane, Methyl hydrogen polysiloxane, Methylhydrogen fluid, Methyl hydrogen silicone fluid.

MASIL® methyl hydrogen siloxane fluids are clear, water-white liquids characterized by a hydrogen group on one or more silicon atoms per molecule. MASIL® methyl hydrogen siloxane fluids readily undergo condensation reactions with silanol groups and with hydroxyl groups. These fluids are used as waterproofing and impregnating agents for textiles, paper and leather; hydrophobing agents for powders, silicas and other fillers.

MASIL® methyl hydrogen siloxane fluids also undergo addition reactions with unsaturated organic compounds in the presence of noble metal catalysts. They are used as components in RTV silicone rubbers, thermal cure silicone rubbers, and in the modification of polyester and methacrylic resins. MASIL® methyl hydrogen siloxane fluids crosslink vinyl-functional silicone polymers such as MASIL® SF 201 and MASIL® SF 202.

MASIL® SF MH-2 is a moderate molecular weight methyl hydrogen siloxane homopolymer that is trimethylsilyl capped. MASIL® XL-1 Crosslinker is a trimethylsilyl capped methyl hydrogen, dimethyl siloxane copolymer, often used as a crosslinker in silicone elastomers where a softer material is desired. MASIL® SF 305 bears terminal SiH groups and is often used as a chain extender through reaction with vinyl terminated siloxanes. MASIL® methyl hydrogen siloxane fluids are soluble in most dimethyl polysiloxane polymers or fluids and will mix readily with gentle agitation.

### Physical Properties

MASIL® Description Methyl Hydrogen:Dimethyl Ratio Specific Gravity@ 25°C Viscosity (cSt) @ 25°C

SF MH-2 SiH Homopolymer — 1.00 20

XL-1 Crosslinker Copolymer 0.37 0.98 45

SF 305 SiH Homopolymer — 0.98 470

## CHEMICAL STRUCTURE

Product Name

Chemical Name

CAS No.

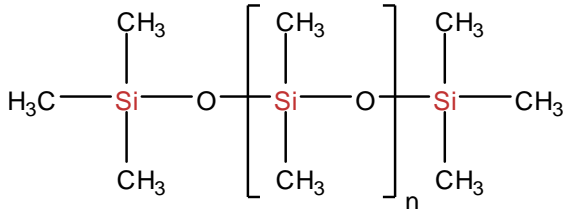
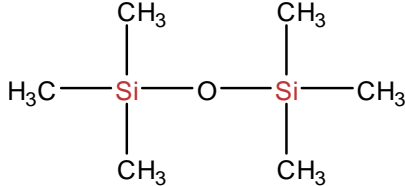
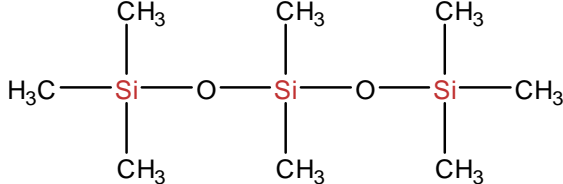
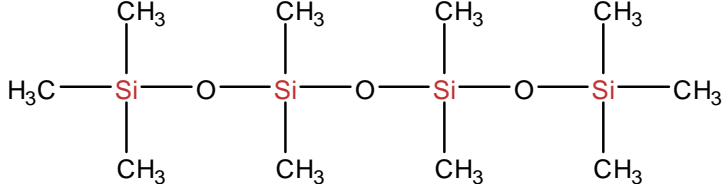
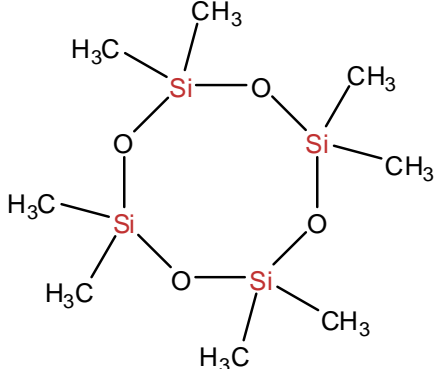
**Power Chemical**  
ISO9001 ISO14001 certified

Copyright© 2008 Power Chemical Corporation Ltd. SiSiB® is a registered trademark of PCC. For more knowledge regarding our silicone products, you may visit [www.SiSiB.com](http://www.SiSiB.com) or [www.PCC.asia](http://www.PCC.asia).



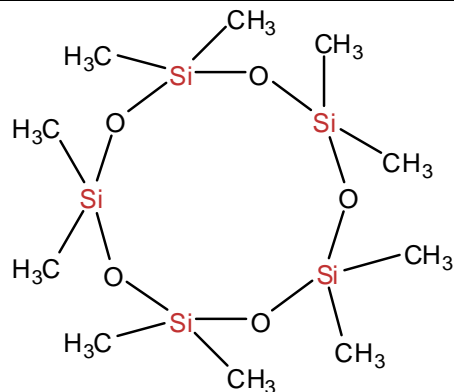
# SiSiB® PF2020 FLUID

- 2 -

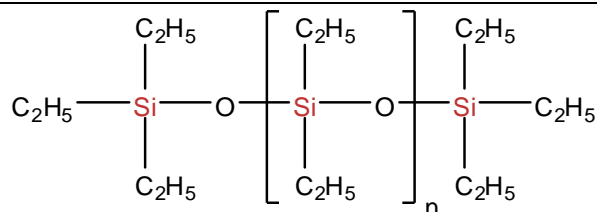
SiSiB® PC1100	Dimethyl Silicone Fluid	
		
SiSiB® PC9200	Hexamethyldisiloxane (HMDSO, MM)	107-46-0
		
	Octamethyltrisiloxane	107-51-7
		
SiSiB® PC9102	Decamethyltetrasiloxane	141-62-8
		
SiSiB® PC9100	Octamethylcyclotetrasiloxane(D4)	556-67-2
		
SiSiB® PC9105	Decamethylcyclopentasiloxane (D5)	541-02-6

**Power Chemical**  
ISO9001 ISO14001 certified

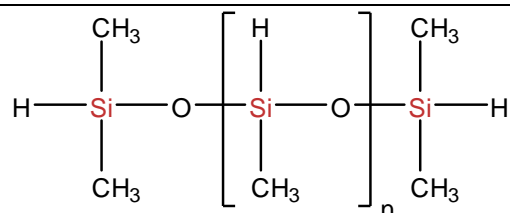
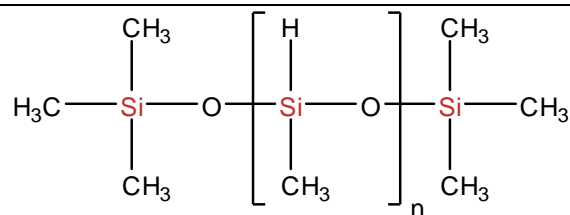
Copyright© 2008 Power Chemical Corporation Ltd.  
SiSiB® is a registered trademark of PCC. For more  
knowledge regarding our silicone products, you  
may visit [www.SiSiB.com](http://www.SiSiB.com) or [www.PCC.asia](http://www.PCC.asia).



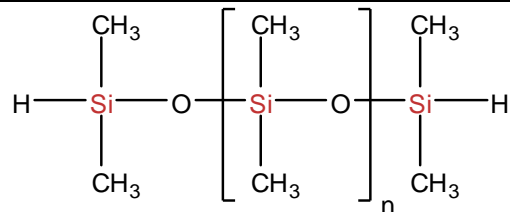
SiSiB® PC1106 Dimethyl Silicone Fluid



Methyl Hydrogen Silicone Fluid



Hydrogen Terminated Silicone Fluid

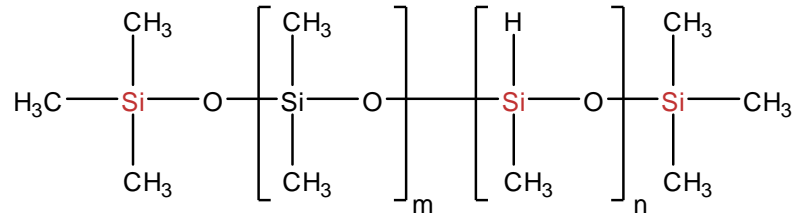


Methyl Hydrogen Silicone Fluid (Low)

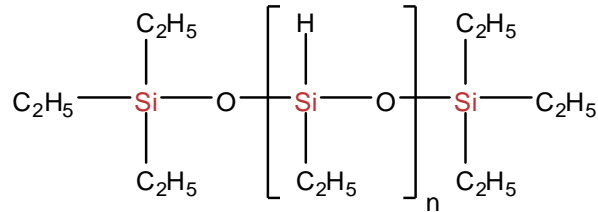


# SiSiB® PF2020 FLUID

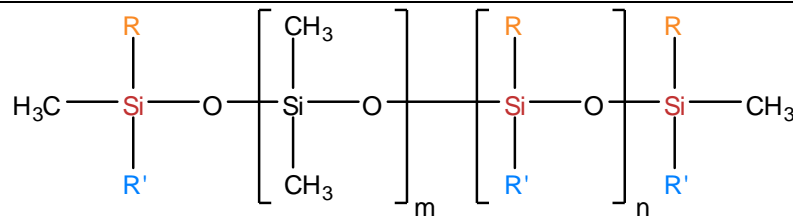
- 4 -



Ethyl Hydrogen Silicone Fluid



Methyl Phenyl Silicone Fluid

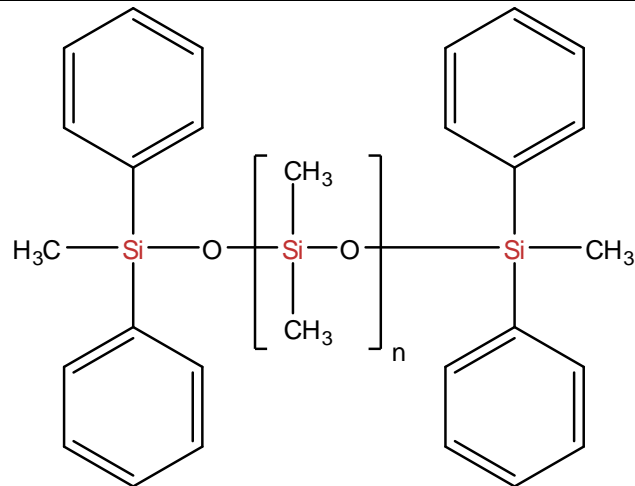


R: Phenyl      R': Methyl or Phenyl

250-30 Phenyl Methyl Silicone Fluid

Diphenyl Methyl Terminated Polydimethylsiloxane

Methyl Phenyl Silicone Fluid, Methyl Phenyl Silicone Oil



255 Phenyl Methyl Silicone Fluid

Phenylmethylpolysiloxane

Methyl Phenyl Silicone Fluid

Methyl Phenyl Silicone Oil

Diphenylsiloxane Dimethylsiloxane Copolymers [68043-14-7]

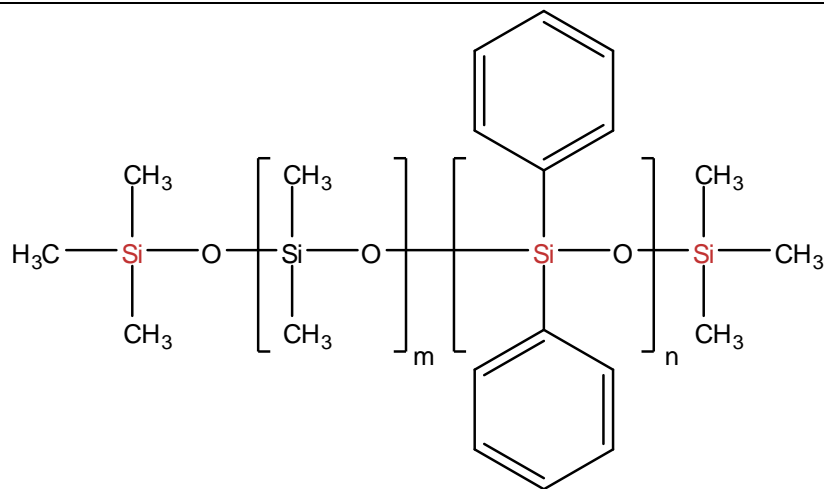
**Power Chemical**  
ISO9001 ISO14001 certified

Copyright© 2008 Power Chemical Corporation Ltd.  
SiSiB® is a registered trademark of PCC. For more  
knowledge regarding our silicone products, you  
may visit [www.SiSiB.com](http://www.SiSiB.com) or [www.PCC.asia](http://www.PCC.asia).



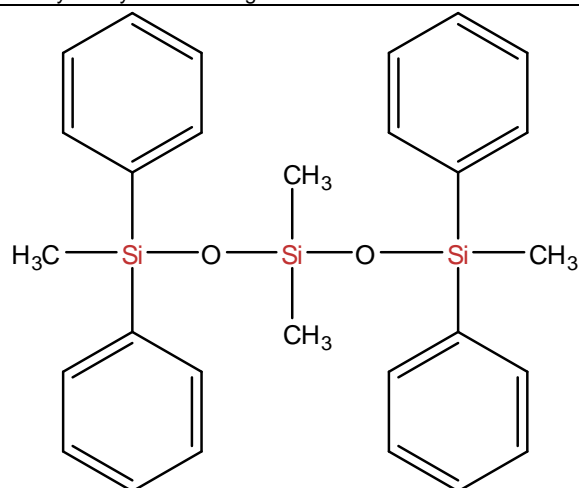
# SiSiB® PF2020 FLUID

- 5 -



274 Phenyl Methyl Silicone Fluid  
1,1,5,5-Tetra-phenyl-1,3,3,5-tetramethyltrisiloxane  
274 Super high vacuum diffusion pump oil  
Phenylmethylsiloxane Oligomers

3982-82-9

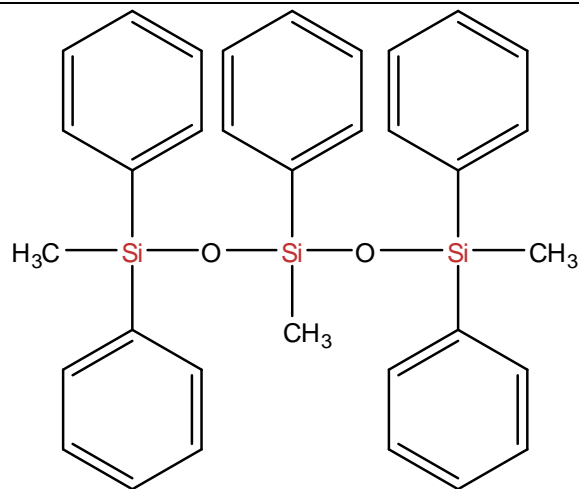


275 Phenyl Methyl Silicone Fluid  
1,1,3,5,5-Pentaphenyl-1,3,5-trimethylsiloxane / CAS No.: [3390-61-2]  
275 Super high vacuum diffusion pump oil  
Phenylmethylsiloxane Oligomers

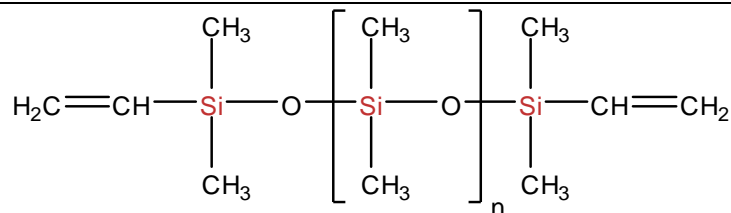
3390-61-2

**Power Chemical**  
ISO9001 ISO14001 certificated

Copyright© 2008 Power Chemical Corporation Ltd.  
SiSiB® is a registered trademark of PCC. For more  
knowledge regarding our silicone products, you  
may visit [www.SiSiB.com](http://www.SiSiB.com) or [www.PCC.asia](http://www.PCC.asia).

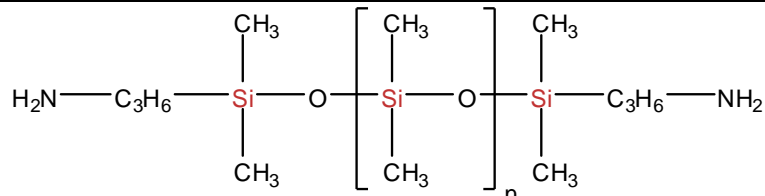
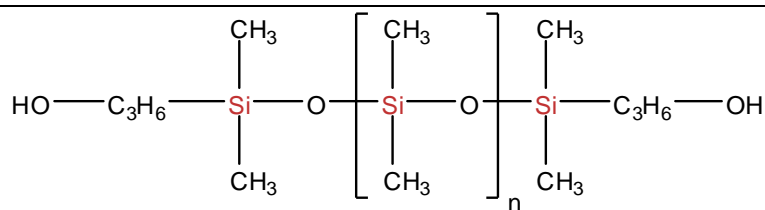
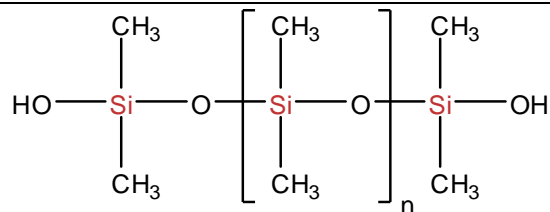


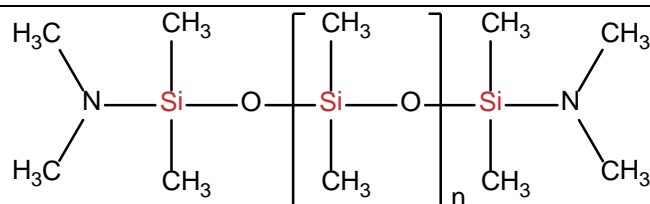
Methyl Vinyl Silicone Fluid



$\alpha$ ,  $\omega$ -silanol-terminated polydimethylsiloxane

OH-encapped polydimethylsiloxane





## INTRODUCTION

SiSiB<sup>®</sup> PF2020 is a methylhydrogen silicone fluid in which some of the methyl radicals of dimethyl silicone fluid are replaced by hydrogen.

A clear coating with good water repellency, mold releasability, and lubricity is obtained by baking this product onto the surface of various materials.

## TYPICAL PHYSICAL PROPERTIES

CAS No.	63148-57-2 or 9004-73-3
Color and Appearance	Colorless clear liquid
Active Ingredient	100%
Specific Gravity <sub>25°C</sub>	0.990~0.998
Refractive Index <sub>25°C</sub>	1.397
Flash Point	>200°C
Volatile Content	<1% [150°C, 2hrs]
Hydrogen Content	1.6%
Viscosity <sub>25°C</sub>	mm <sup>2</sup> /s
SiSiB <sup>®</sup> PF2020-10	7~15
SiSiB <sup>®</sup> PF2020-20	16~24
SiSiB <sup>®</sup> PF2020-30	26~34
SiSiB <sup>®</sup> PF2020-40	36~44

## APPLICATIONS

SiSiB<sup>®</sup> PF2020 may be used for water repellent (hydrophobing) treatment of plasterboard and plaster blocks.

SiSiB<sup>®</sup> PF2020 may be used for treatment of powders and granular materials to make

**Power Chemical**  
ISO9001 ISO14001 certified

Copyright© 2008 Power Chemical Corporation Ltd.  
SiSiB<sup>®</sup> is a registered trademark of PCC. For more knowledge regarding our silicone products, you may visit [www.SiSiB.com](http://www.SiSiB.com) or [www.PCC.asia](http://www.PCC.asia).



# SiSiB® PF2020 FLUID

- 8 -

them water repellent.

SiSiB® PF2020 may be used for treatment of dry-sprayed substances (like extinguisher powders, various fillers) to make them free flowing and to reduce caking.

SiSiB® PF2020 may be used for impregnation of cylinder head gaskets in order to improve their permeability properties.

SiSiB® PF2020 may be used for water repellent treatment of textiles (flat, natural, synthetic or mixed, knitted, non woven fabrics) either in a solvent system or in an aqueous emulsion using an appropriate technique.

## PACKING AND STORAGE

SiSiB® PF2020 is supplied in 200Kg steel drum or 1000Kg IBC tote.

In the original unopened packaging, SiSiB® PF2020 has a shelf life of one year in a dry and cool place.

## NOTES

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability. We disclaim liability for any incidental or consequential damages.

Please send all technical questions concerning quality and product safety to: [silanes@SiSiB.com](mailto:silanes@SiSiB.com).

**Power Chemical**  
ISO9001 ISO14001 certified

Copyright© 2008 Power Chemical Corporation Ltd.  
SiSiB® is a registered trademark of PCC. For more knowledge regarding our silicone products, you may visit [www.SiSiB.com](http://www.SiSiB.com) or [www.PCC.asia](http://www.PCC.asia).