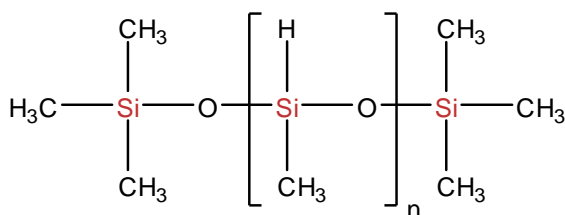




## CHEMICAL NAME

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

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB® HF2020 is a methylhydrogen silicone fluid in which some of the methyl radicals of dimethyl silicone fluid are replaced by hydrogen.

SiSiB® HF2020 is similar to MH-1107 (DowCorning), TSF-484 (Momentive), DF-1040 (Momentive), Rhodorsil H68 (Rhodia), SILRES BS 94 (Wacker) and KF-99 (ShineTsu).

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>	17~25 mm <sup>2</sup> /s

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## APPLICATIONS

SiSiB® HF2020 may be used for water repellent (hydrophobing) treatment of plasterboard and plaster blocks.

SiSiB® HF2020 may be used for treatment of powders and granular materials to make them water repellent.

SiSiB® HF2020 may be used for treatment of dry-spayed substances (like extinguisher powders, various fillers) to make them free flowing and to reduce caking.

SiSiB® HF2020 may be used for impregnation of cylinder head gaskets in order to improve their permeability properties.

SiSiB® HF2020 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® HF2020 is supplied in 200Kg steel drum or 1000Kg IBC tote.

In the original unopened packaging, SiSiB® HF2020 has a shelf life of one year in a dry and cool place.

## NOTES

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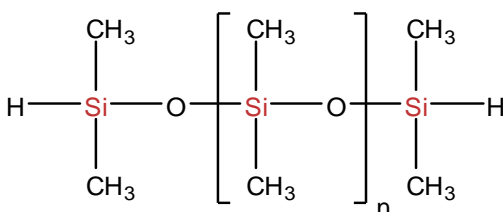
Please send all technical questions concerning quality and product safety to: [silanes@SiSiB.com](mailto:silanes@SiSiB.com).



## CHEMICAL NAME

Hydrogen Terminated Polydimethylsiloxane

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB<sup>®</sup> HF2030-M6000 is a hydride terminated polydimethylsiloxane, which molecular weight is around 6000.

## TYPICAL PHYSICAL PROPERTIES

CAS No.	70900-21-9
	SiSiB <sup>®</sup> HF2030-M6000
Flash Point	>93°C
Color and Appearance	Colorless clear liquid
Molecular Weight	6000
Specific Gravity <sub>25°C</sub>	0.971
Refractive Index <sub>25°C</sub>	1.403
Hydrogen Content wt%	0.03%
SiH Content	0.3mmol/g
Viscosity <sub>25°C</sub>	100cSt
Active Ingredient	100%

**Remark: Other Hydrogen contents and viscosity levels can be made upon request.**

## APPLICATIONS

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## SiSiB<sup>®</sup> HF2030-M6000 Fluid

- 2 -

SiSiB<sup>®</sup> HF2030 can be used as raw material for end-reactive linear modified silicone.

SiSiB<sup>®</sup> HF2030 can be used as chain extender and crosslinker for addition cure liquid silicone rubber.

SiSiB<sup>®</sup> HF2030 can be used for water repellent treatment of textiles.

### PACKING AND STORAGE

SiSiB<sup>®</sup> HF2030 is supplied in 190Kg steel drum or 950Kg IBC tote.

In the original unopened packaging, SiSiB<sup>®</sup> HF2030 has a shelf life of one year in a dry and cool place.

### NOTES

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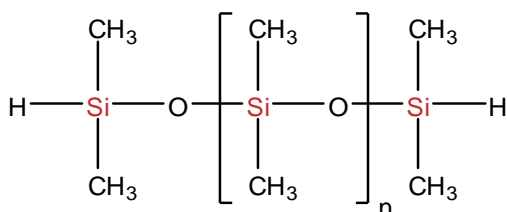
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## CHEMICAL NAME

Hydrogen Terminated Polydimethylsiloxane

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB® HF2030-M4000 is a hydride terminated polydimethylsiloxane, which molecular weight is around 4000.

## TYPICAL PHYSICAL PROPERTIES

CAS No.	70900-21-9
	SiSiB® HF2030-M4000
Flash Point	>93°C
Color and Appearance	Colorless clear liquid
Molecular Weight	4000
Specific Gravity <sub>25°C</sub>	0.971
Refractive Index <sub>25°C</sub>	1.403
Hydrogen Content wt%	0.05%
SiH Content	0.5mmol/g
Viscosity <sub>25°C</sub>	cSt
Active Ingredient	100%

**Remark: Other Hydrogen contents and viscosity levels can be made upon request.**

## APPLICATIONS

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## SiSiB<sup>®</sup> HF2030-M4000 Fluid

- 2 -

SiSiB<sup>®</sup> HF2030 can be used as raw material for end-reactive linear modified silicone.

SiSiB<sup>®</sup> HF2030 can be used as chain extender and crosslinker for addition cure liquid silicone rubber.

SiSiB<sup>®</sup> HF2030 can be used for water repellent treatment of textiles.

### PACKING AND STORAGE

SiSiB<sup>®</sup> HF2030 is supplied in 190Kg steel drum or 950Kg IBC tote.

In the original unopened packaging, SiSiB<sup>®</sup> HF2030 has a shelf life of one year in a dry and cool place.

### NOTES

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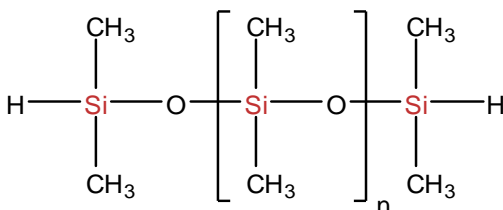
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## CHEMICAL NAME

Hydrogen Terminated Polydimethylsiloxane

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB® HF2030-M2000 is a hydride terminated polydimethylsiloxane, which molecular weight is around 2000.

## TYPICAL PHYSICAL PROPERTIES

CAS No.	70900-21-9
	SiSiB® HF2030-M2000
Flash Point	>93°C
Color and Appearance	Colorless clear liquid
Molecular Weight	2000
Specific Gravity <sub>25°C</sub>	0.971
Refractive Index <sub>25°C</sub>	1.403
Hydrogen Content wt%	0.1%
SiH Content	1.0mmol/g
Viscosity <sub>25°C</sub>	25cSt
Active Ingredient	100%

**Remark: Other Hydrogen contents and viscosity levels can be made upon request.**

## APPLICATIONS

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## SiSiB® HF2030-M2000 Fluid

- 2 -

SiSiB® HF2030 can be used as raw material for end-reactive linear modified silicone.

SiSiB® HF2030 can be used as chain extender and crosslinker for addition cure liquid silicone rubber.

SiSiB® HF2030 can be used for water repellent treatment of textiles.

### PACKING AND STORAGE

SiSiB® HF2030 is supplied in 190Kg steel drum or 950Kg IBC tote.

In the original unopened packaging, SiSiB® HF2030 has a shelf life of one year in a dry and cool place.

### NOTES

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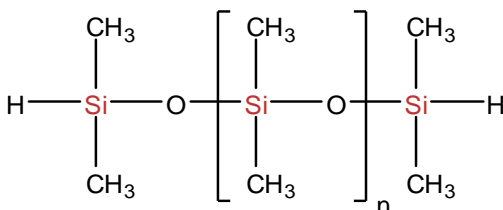




## CHEMICAL NAME

Hydrogen Terminated Polydimethylsiloxane

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB® HF2030-M1250 is a hydride terminated polydimethylsiloxane, which molecular weight is around 1250.

## TYPICAL PHYSICAL PROPERTIES

CAS No.	70900-21-9
	SiSiB® HF2030-M1250
Flash Point	>93°C
Color and Appearance	Colorless clear liquid
Molecular Weight	1250
Specific Gravity <sub>25°C</sub>	0.971
Refractive Index <sub>25°C</sub>	1.403
Hydrogen Content wt%	0.16%
SiH Content	1.6mmol/g
Active content:	Min.99.0%

**Remark: Other Hydrogen contents and viscosity levels can be made upon request.**

## APPLICATIONS

SiSiB® HF2030 can be used as raw material for end-reactive linear modified silicone.

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## SiSiB<sup>®</sup> HF2030-M1250 Fluid

- 2 -

SiSiB<sup>®</sup> HF2030 can be used as chain extender and crosslinker for addition cure liquid silicone rubber.

SiSiB<sup>®</sup> HF2030 can be used for water repellent treatment of textiles.

### PACKING AND STORAGE

SiSiB<sup>®</sup> HF2030 is supplied in 190Kg steel drum or 950Kg IBC tote.

In the original unopened packaging, SiSiB<sup>®</sup> HF2030 has a shelf life of one year in a dry and cool place.

### NOTES

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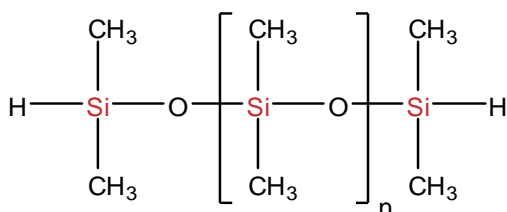
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## CHEMICAL NAME

Hydrogen Terminated Polydimethylsiloxane

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB® HF2030-M10000 is a hydride terminated polydimethylsiloxane, which molecular weight is around 10000.

## TYPICAL PHYSICAL PROPERTIES

CAS No.	70900-21-9
	SiSiB® HF2030-M10000
Flash Point	>93°C
Color and Appearance	Colorless clear liquid
Molecular Weight	10000
Specific Gravity <sub>25°C</sub>	0.971
Refractive Index <sub>25°C</sub>	1.403
Hydrogen Content wt%	0.02%
SiH Content	0.2mmol/g
Viscosity <sub>25°C</sub>	cSt
Active Ingredient	100%

**Remark: Other Hydrogen contents and viscosity levels can be made upon request.**

## APPLICATIONS

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## SiSiB® HF2030-M10000 Fluid

- 2 -

SiSiB® HF2030 can be used as raw material for end-reactive linear modified silicone.

SiSiB® HF2030 can be used as chain extender and crosslinker for addition cure liquid silicone rubber.

SiSiB® HF2030 can be used for water repellent treatment of textiles.

### PACKING AND STORAGE

SiSiB® HF2030 is supplied in 190Kg steel drum or 950Kg IBC tote.

In the original unopened packaging, SiSiB® HF2030 has a shelf life of one year in a dry and cool place.

### NOTES

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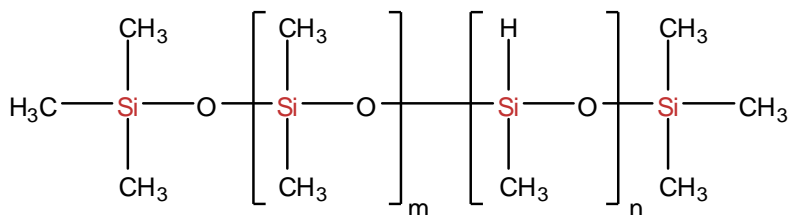
# SiSiB® HF2050 Crosslinker

- 1 -

## CHEMICAL NAME

Methylhydrosiloxane-dimethylsiloxane copolymer Trimethylsiloxo terminated

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB® HF2050 is a colorless transparent liquid.

## TYPICAL PHYSICAL PROPERTIES

CAS No.	68037-59-2	
Color and Appearance	Colorless transparent liquid	
Silicone Content	100%	
Specific Gravity 25°C	0.980~0.990	
Refractive Index 25°C	1.4010~1.4050	
Volatile Content	Max.1% [150°C, 3hrs]	
	SiH content [mmol/g]	Viscosity 25°C [cst]
SiSiB® HF2050-100H75	7.5	100
SiSiB® HF2050-15H75	7.5	15
SiSiB® HF2050-55H55	5.5	55
SiSiB® HF2050-22H55	5.5	22
SiSiB® HF2050-60H36	3.6	60
SiSiB® HF2050-15H36	3.6	15
SiSiB® HF2050-15H100	10	15
SiSiB® HF2050-60H120	12	60

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# SiSiB® HF2050 Crosslinker

- 2 -

SiSiB® HF2050-15H43	4.3	15
SiSiB® HF2050-115H41	4.1	115
SiSiB® HF2050-21H20	2.0	21
SiSiB® HF2050-70H18	1.8	70
SiSiB® HF2050-20H11	1.1	20

Remark: SiSiB® HF2050 is available in different viscosities and different Si-H.

## APPLICATIONS

SiSiB® HF2050 is used as crosslinkers for curing vinyl-functional silicone fluids. With different Si-H content, it can provide good flexibility in formulating RTV-2 silicone rubber. Curing is affected by a platinum catalyst resulting in an addition reaction between the hydrogen and the vinyl group of the silicones.

## PACKING AND STORAGE

SiSiB® HF2050 is supplied in 5Kg, 25Kg pail or 200Kg steel drum.

In the original unopened packaging, SiSiB® HF2050 has a shelf life of one year in a dry and cool place.

## NOTES

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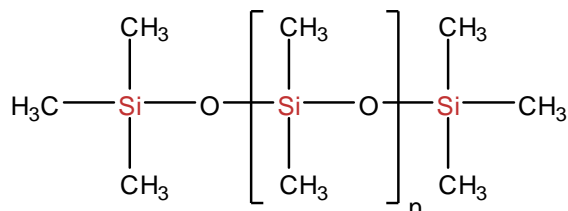
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## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB<sup>®</sup> MF2010 is a silicone fluid with a dimethylpolysiloxane structure. It is a synthetic oil which does not exist in nature. It is composed of organic methyl groups and inorganic siloxane bonds (Si-O-Si). Siloxane bonds also make up such highly heat-resistant materials as glass and quartz. SiSiB<sup>®</sup> MF2010 has numerous unique properties not found in conventional mineral oils or synthetic oils. Products are available in viscosities ranging from water-like, free-flowing fluids to syrup-like fluids.

## THE MOST IMPORTANT FEATURES

Features	Advantages	Benefits
100% polydimethylsiloxane	No contamination	Improved quality
Insoluble in most petroleum systems	Remains antifoam properties Low addition levels	More output, cost savings
Low surface tension	High antifoam efficiency	Cost savings
Exceptional stability to chemical attack	No breakdown under processing conditions	Improved product quality
High oxidation resistance	Low risk of breakdown	Improved quality
Inertness	No processing contamination	Improved quality
Very low volatility	Remains in heavy residues	Improved quality
High flash point	Low flammability	Safety in use
Essentially non-toxic	Low risk	Safe to use

## TYPICAL PHYSICAL PROPERTIES

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# SiSiB® MF2010 FLUID

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Product	Viscosity cst	Flashpoint °C	Freezing Point, °C	Specific Gravity 25°C	Surface Tension, mN/m	Refractive Index 25°C
MF2010-0.65	0,65	-4	-67	0.760	15.9	1.375
MF2010-1	1	40	-85	0.816	17.4	1.382
MF2010-5	5	136	-65	0.910	19.7	1.397
MF2010-10	10	162	-65	0.930	20.1	1.399
MF2010-20	20	230	-60	0.950	20.6	1.400
MF2010-50	50	280	-55	0.959	20.7	1.402
MF2010-100	100	>300	-55	0.965	20.9	1.403
MF2010-300	300	>300	-50	0.970	21.1	1.403
MF2010-350	350	>300	-50	0.970	21.1	1.403
MF2010-500	500	>300	-50	0.970	21.1	1.403
MF2010-1000	1000	>300	-50	0.970	21.2	1.403
MF2010-5000	5000	>300	-50	0.975	21.4	1.403
MF2010-10000	10000	>300	-50	0.975	21.5	1.403
MF2010-12500	12500	>300	-50	0.975	21.5	1.403
MF2010-30000	30000	>320	-50	0.975	21.5	1.403
MF2010-60000	60000	>300	-50	0.975	21.5	1.403
MF2010-100000	100000	>300	-50	0.976	21.5	1.404
MF2010-300000	300000	>300	-45	0.976	21.5	1.404
MF2010-500000	500000	>300	-40	0.976	21.5	1.404
MF2010-1000000	1000000	>300	-40	0.976	21.5	1.404

## APPLICATIONS

As a release agent.

Used purely or as a part of a compounded formula SiSiB® MF2010 provides a non-toxic, non-carbonizing mould release for rubber, plastics and metal die-castings.

As an Anti-Foam agent.

Very small quantities of the fluid are very effective as a foam control agent, especially in non-aqueous systems.

As a mechanical fluid.

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# SiSiB® MF2010 FLUID

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The very high viscosity-index, the thermal and chemical stability, shear-breakdown resistance and the rubber compatibility as well as the compressibility make this fluid outstanding for mechanical and hydraulic uses.

As a lubricant.

The fluid provides excellent lubricating properties for most plastic and elastomeric surfaces. Lubricity with metals depends upon the possible combinations such as P.T.F.E., MoS<sub>2</sub> and other lubricity improvers.

In polishes and chemical specialties.

Silicone oil is used in most automobile and furniture polishes for its ease of application, high gloss with a minimum rubbing and durable water repellent film.

In electrical and electronic equipment.

Because of the excellent dielectric properties silicone oil is widely used as an insulating and damping fluid.

## PACKING AND STORAGE

SiSiB® MF2010 is supplied in 190/200Kg steel drum or 950/1000Kg IBC tote.

In the original unopened packaging, SiSiB® MF2010 fluid has a shelf life of 24 months when stored at ambient temperatures. The product does not freeze and there are no restrictions on storage.

## NOTES

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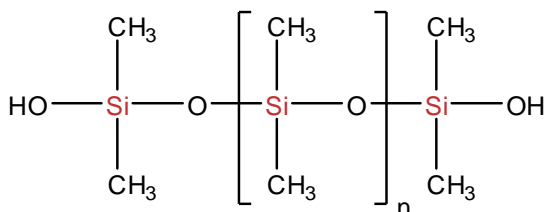
# SiSiB<sup>®</sup> OF0025 FLUID

- 1 -

## CHEMICAL NAME

$\alpha,\omega$ -silanol-terminated polydimethylsiloxane, ( $\alpha,\omega$ -Dihydroxypolydimethylsiloxane),

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB<sup>®</sup> OF0025 is a low viscosity hydroxyl terminated silicone that cross-links to form a durable silicone coating to various hard surfaces.

## TYPICAL PHYSICAL PROPERTIES

CAS No.	70131-67-8
Color and Appearance	Colorless clear liquid
Active Ingredient	100%
Density <sub>25°C</sub>	0.98
Viscosity <sub>25°C</sub>	25 cSt
OH Content, weight	>8.5%

Remark: Other OH contents and viscosity levels can be made upon request.

## APPLICATIONS

Low viscosity silanol fluids are employed as filler treatments and structure control additives in silicone rubber compounding. Intermediate viscosity, 1000-10,000 cSt. fluids can be applied to textiles as durable fabric softeners. High viscosity silanol terminated fluids form the matrix component in tackifiers and pressure sensitive adhesives.

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# SiSiB® OF0025 FLUID

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## PACKING AND STORAGE

SiSiB® OF0025 fluid is supplied in 200Kg steel drum or 1000Kg IBC container.

In the original unopened packaging, SiSiB® OF0025 fluid has a shelf life of 18 months in a dry and cool place.

## NOTES

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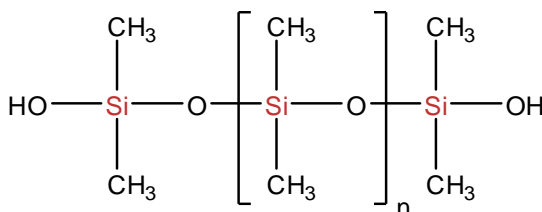
# SiSiB® OF0156B FLUID

- 1 -

## CHEMICAL NAME

$\alpha,\omega$ -silanol-terminated polydimethylsiloxane, ( $\alpha,\omega$ -Dihydroxypolydimethylsiloxane),

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB® OF0156B is a clear to slightly hazy, low viscosity reactive hydroxyl terminated silicone fluid

## TYPICAL PHYSICAL PROPERTIES

CAS No.	70131-67-8
Color and Appearance	Colorless clear liquid
Active Ingredient	100%
Viscosity <sub>25°C</sub>	95~105cSt
OH Content, weight	0.8~0.9%

Remark: Other OH contents and viscosity levels can be made upon request.

## APPLICATIONS

Low viscosity silanol fluids are employed as filler treatments and structure control additives in silicone rubber compounding. Intermediate viscosity, 1000-10,000 cSt. fluids can be applied to textiles as durable fabric softeners. High viscosity silanol terminated fluids form the matrix component in tackifiers and pressure sensitive adhesives.

SiSiB® OF0156B can be used to produce amino silicone oil and silicone softener.

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# SiSiB<sup>®</sup> OF0156B FLUID

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## PACKING AND STORAGE

SiSiB<sup>®</sup> OF0156B fluid is supplied in 200Kg steel drum or 1000Kg IBC container.

In the original unopened packaging, SiSiB<sup>®</sup> OF0156B fluid has a shelf life of 18 months in a dry and cool place.

## NOTES

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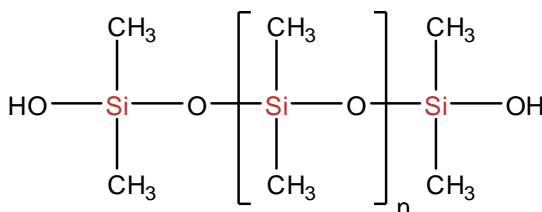
# SiSiB® OF0156A FLUID

- 1 -

## CHEMICAL NAME

$\alpha,\omega$ -silanol-terminated polydimethylsiloxane, ( $\alpha,\omega$ -Dihydroxypolydimethylsiloxane),

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB® OF0156A is a clear to slightly hazy, low viscosity reactive hydroxyl terminated silicone fluid

## TYPICAL PHYSICAL PROPERTIES

CAS No.	70131-67-8
Color and Appearance	Colorless clear liquid
Active Ingredient	100%
Viscosity <sub>25°C</sub>	60~70cSt
OH Content, weight	1.1~2.0%

Remark: Other OH contents and viscosity levels can be made upon request.

## APPLICATIONS

Low viscosity silanol fluids are employed as filler treatments and structure control additives in silicone rubber compounding. Intermediate viscosity, 1000-10,000 cSt. fluids can be applied to textiles as durable fabric softeners. High viscosity silanol terminated fluids form the matrix component in tackifiers and pressure sensitive adhesives.

SiSiB® OF0156A can be used to produce amino silicone oil and silicone softener.

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# SiSiB<sup>®</sup> OF0156A FLUID

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## PACKING AND STORAGE

SiSiB<sup>®</sup> OF0156A fluid is supplied in 200Kg steel drum or 1000Kg IBC container.

In the original unopened packaging, SiSiB<sup>®</sup> OF0156A fluid has a shelf life of 18 months in a dry and cool place.

## NOTES

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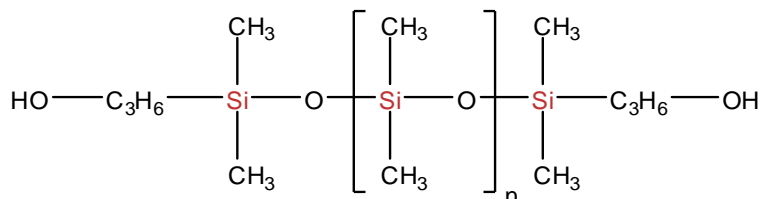
# SiSiB<sup>®</sup> OF1300 FLUID

- 1 -

## CHEMICAL NAME

Hydroxypropyl terminated polydimethoxysiloxane

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB<sup>®</sup> OF1300 is a colorless to light yellow clear liquid.

## TYPICAL PHYSICAL PROPERTIES

Color and Appearance	Colorless or slight straw clear liquid
Molecular Weight	2000~2500
Density <sub>25/25°C</sub>	0.95~0.98
Hydroxy content	1.5~2.0%
Active content	100%

## APPLICATIONS

SiSiB<sup>®</sup> OF1300 can be used to improve the low temperature flexibility and process ability of specialty polymers.

SiSiB<sup>®</sup> OF1300 can improve temperature resistance and abrasion resistance.

SiSiB<sup>®</sup> OF1300 can be used as releasing agent due to its excellent isolation and releasability.

## PACKING AND STORAGE

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## SiSiB® OF1300 FLUID

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SiSiB® OF1300 fluid is supplied in 1Kg, 5Kg, 25Kg bottle.

In the original unopened packaging, SiSiB® OF1300 fluid has a shelf life of 18 months in a dry and cool place.

### NOTES

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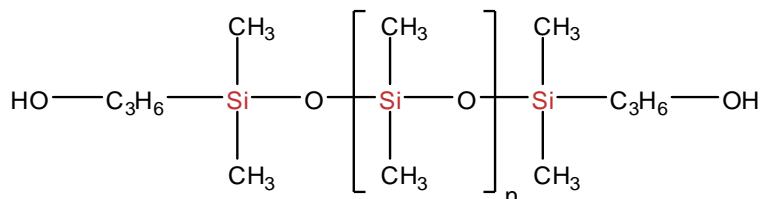
# SiSiB<sup>®</sup> OF1300 FLUID

- 1 -

## CHEMICAL NAME

Hydroxypropyl terminated polydimethoxysiloxane

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB<sup>®</sup> OF1300 is a colorless to light yellow clear liquid.

## TYPICAL PHYSICAL PROPERTIES

Color and Appearance	Colorless or slight straw clear liquid
Molecular Weight	Around 1000
Hydroxy content	3.0~4.0%
Active content	100%

## APPLICATIONS

SiSiB<sup>®</sup> OF1300 can be used to improve the low temperature flexibility and process ability of specialty polymers.

SiSiB<sup>®</sup> OF1300 can improve temperature resistance and abrasion resistance.

SiSiB<sup>®</sup> OF1300 can be used as releasing agent due to its excellent isolation and releasability.

## PACKING AND STORAGE

SiSiB<sup>®</sup> OF1300 fluid is supplied in 1Kg, 5Kg, 25Kg bottle.

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## SiSiB<sup>®</sup> OF1300 FLUID

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In the original unopened packaging, SiSiB<sup>®</sup> OF1300 fluid has a shelf life of 18 months in a dry and cool place.

### NOTES

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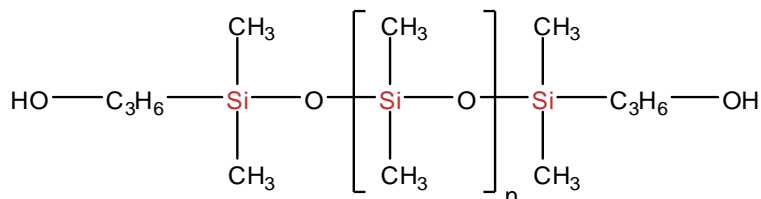
# SiSiB<sup>®</sup> OF1300 FLUID

- 1 -

## CHEMICAL NAME

Hydroxypropyl terminated polydimethoxysiloxane

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB<sup>®</sup> OF1300 is a colorless to light yellow clear liquid.

## TYPICAL PHYSICAL PROPERTIES

Color and Appearance	Colorless or slight straw clear liquid
Molecular Weight	Around 4000
Hydroxy content	0.7~1.0%
Active content	100%

## APPLICATIONS

SiSiB<sup>®</sup> OF1300 can be used to improve the low temperature flexibility and process ability of specialty polymers.

SiSiB<sup>®</sup> OF1300 can improve temperature resistance and abrasion resistance.

SiSiB<sup>®</sup> OF1300 can be used as releasing agent due to its excellent isolation and releasability.

## PACKING AND STORAGE

SiSiB<sup>®</sup> OF1300 fluid is supplied in 1Kg, 5Kg, 25Kg bottle.

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## SiSiB<sup>®</sup> OF1300 FLUID

- 2 -

In the original unopened packaging, SiSiB<sup>®</sup> OF1300 fluid has a shelf life of 18 months in a dry and cool place.

### NOTES

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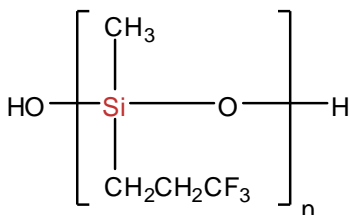
# SiSiB® OF9020 FLUID

- 1 -

## CHEMICAL NAME

Silanol terminated poly(methyl-trifluoropropyl)siloxane

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB® OF9020 is silanol terminated poly(methyl-trifluoropropyl)siloxane. It is colorless to yellowish liquid. It has good oil resistivity and solvent resistance, besides it owns low surface tension and refractive index. SiSiB® OF9020 can be used in a wide range of operating temperature from -60°C to 250°C.

## TYPICAL PHYSICAL PROPERTIES

CAS No.	68607-77-2
EINECS No.	N.A.
Flash Point	Min 300°C
Color and Appearance	Colorless to yellowish liquid
Viscosity <sub>25°C</sub> :	100-140 mPa.s
Hydroxyl content:	5~7%
Volatile content(200°C,4h):	Max 5.0%

## APPLICATIONS

SiSiB® OF9020 is used as structure control additives in fluoro silicone rubber compounding.

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# SiSiB® OF9020 FLUID

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## PACKING AND STORAGE

SiSiB® OF9020 is supplied in net weight 5Kg, 10Kg, and 20Kg drum.

In the unopened original container SiSiB® OF9020 has a shelf life of half year in a dry and cool place.

## NOTES

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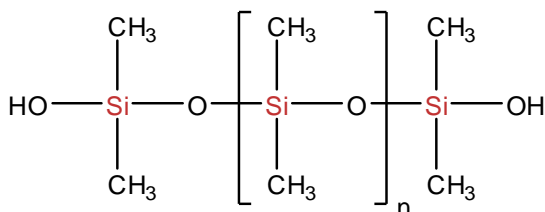
# SiSiB<sup>®</sup> PF1070 OH Polymer

- 1 -

## CHEMICAL NAME

$\alpha,\omega$ -silanol-terminated polydimethylsiloxane ( $\alpha,\omega$ -Dihydroxypolydimethylsiloxane)

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB<sup>®</sup> PF1070 OH polymer are intermediates for most room temperature vulcanizeable (RTV) silicones.

## TYPICAL PHYSICAL PROPERTIES

CAS No.	70131-67-8
Color and Appearance	Colorless transparent liquid
Density <sub>25/25°C</sub>	0.96-0.98
Refractive Index <sub>25°C</sub>	1.401-1.403
Viscosity	
SiSiB <sup>®</sup> PF1070-750	750cps
SiSiB <sup>®</sup> PF1070-1K5	1,500cps
SiSiB <sup>®</sup> PF1070-2K	2,000cps
SiSiB <sup>®</sup> PF1070-3K5	3,500cps
SiSiB <sup>®</sup> PF1070-5K	5,000cps
SiSiB <sup>®</sup> PF1070-10K	10,000cps
SiSiB <sup>®</sup> PF1070-20K	20,000cps
SiSiB <sup>®</sup> PF1070-50K	50,000cps
SiSiB <sup>®</sup> PF1070-80K	80,000cps

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## APPLICATIONS

Condensation cure one-part and two-part RTV systems are formulated from silanol terminated polymers with molecular weights ranging from 15,000 to 150,000. One-part systems are the most widely used. One-part systems are crosslinked with moisture-sensitive multi-functional silanes in a two stage reaction. In the first stage, after compounding with fillers, the silanol is reacted with an excess of multi-functional silane. The silanol is in essence displaced by the silane.

The reactivity of silanol fluids is utilized in applications other than RTV's. Low viscosity silanol fluids are employed as filler treatments and structure control additives in silicone rubber compounding. Intermediate viscosity, 1000-10,000 cSt. fluids can be applied to textiles as durable fabric softeners. High viscosity silanol terminated fluids form the matrix component in tackifiers and pressure sensitive adhesives.

## PACKING AND STORAGE

SiSiB® PF1070 OH polymer is supplied in 190Kg steel drum or 950Kg IBC container.

In the original unopened packaging, SiSiB® PF1070 OH polymer has a shelf life of 18 months in a dry and cool place.

## NOTES

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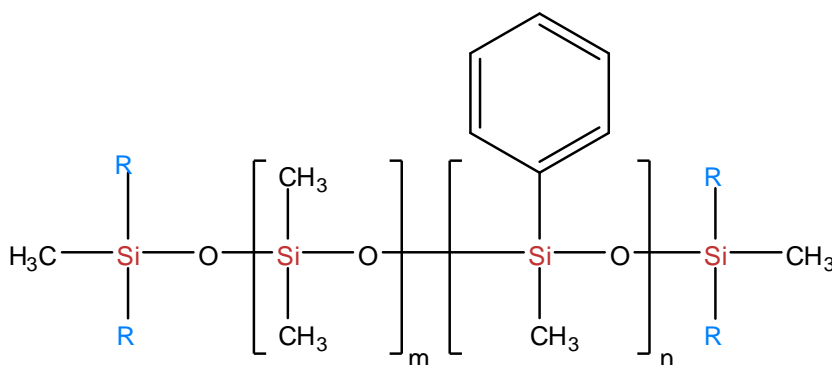
# SiSiB<sup>®</sup> PF8255 FLUID

- 1 -

## CHEMICAL NAME

Polyphenylmethyldimethylsiloxane

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB<sup>®</sup> PF8255 is similar to DowCorning's DC-550, Shin-Etsu's KF-54.

## TYPICAL PHYSICAL PROPERTIES

Chemical Name	Polyphenylmethyldimethylsiloxane
Color and Appearance	Colorless to straw-colored fluid
Specific Gravity at 25°C	1.02~1.10
Refractive Index 25°C:	1.4800~1.5000
Flash Point, open cup	>300°C,
Condensation Point:	<-40°C
Viscosity at 25°C	cSt
SiSiB <sup>®</sup> PF8255-75	50~80
SiSiB <sup>®</sup> PF8255-150	110~200
SiSiB <sup>®</sup> PF8255-350	200~500
SiSiB <sup>®</sup> PF8255-750	500~1000

## APPLICATIONS

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# SiSiB® PF8255 FLUID

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Apart from the general property of methyl silicone oil, PF8255 also enjoys a good heat stability, oxidation-resistant capacity, and with strong surface tension, lower freezing point and water stability, the product has a good miscibility with other organic resins, suitable for skin protection and soften, and can be used for high-temperature heat carrier or as insulation oil, high-temperature heating oil bath and base oil.

## PACKING AND STORAGE

SiSiB® PF8255 is supplied in 1Kg bottles, 5Kg 25Kg pails, and 200Kg steel drums.

In the original unopened packaging, SiSiB® PF8255 has a shelf life of 60 months.

## NOTES

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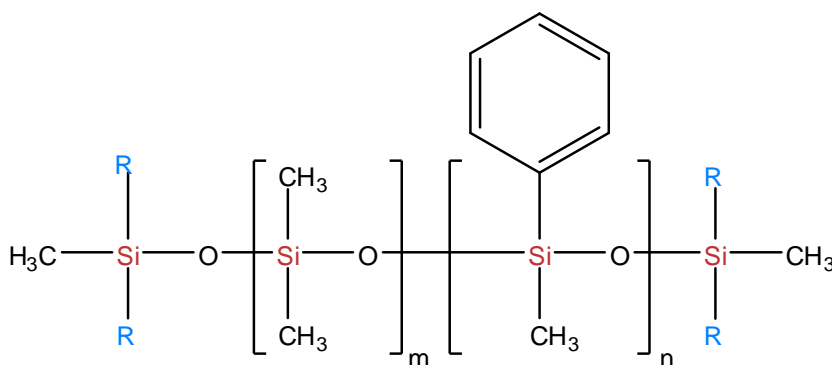
# SiSiB® PF8250 FLUID

- 1 -

## CHEMICAL NAME

Polyphenylmethyldimethylsiloxane

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB® PF8250 is similar to DowCorning's DC-510, Shin-Etsu's KF-50.

## TYPICAL PHYSICAL PROPERTIES

Chemical Name	Polyphenylmethyldimethylsiloxane
Color and Appearance	Colorless to straw-colored fluid
Specific Gravity at 25°C	1.010~1.080
Viscosity at 25°C	25~40 cSt
Refractive Index 25°C:	1.4700~1.4800
Flash Point, open cup	>240°C,
Condensation Point:	<-45°C

## APPLICATIONS

Low viscosity, low freezing point, heat resistance, relatively high flash point, expansion coefficient, superior electrical performance (anti-corona, the average high pressure). For large power capacitor insulation impregnation and plasma bags, infusion bags isolated anti-sticking additives, surgical treatment of the base oil, cosmetics and skin care, and

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# SiSiB<sup>®</sup> PF8250 FLUID

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other additives such as frostbite injury

## PACKING AND STORAGE

SiSiB<sup>®</sup> PF8250 is supplied in 1Kg bottles, 5Kg 25Kg pails, and 200Kg steel drums.

In the original unopened packaging, SiSiB<sup>®</sup> PF8250 has a shelf life of 60 months.

## NOTES

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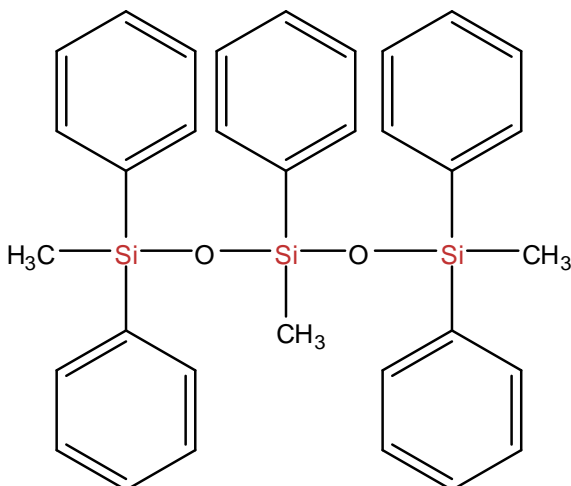
# SiSiB<sup>®</sup> PF8705 FLUID

- 1 -

## CHEMICAL NAME

1,1,3,5,5-Pentaphenyl-1,3,5-trimethyltrisiloxane

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB<sup>®</sup> PF8705 Silicone Diffusion Pump Fluid is a single component fluid designed for ultrahigh vacuum applications in the range of  $10^{-9}$  to  $10^{-10}$  torr (untrapped) and  $10^{-11}$  torr (trapped). The low vapor pressure, low back-streaming rate and the high resistance to oxidation and radiation make this diffusion pump fluid ideal for many ultrahigh vacuum applications such as those in mass spectrometers and electron microscopes.

It has the highest phenyl content of all silicone diffusion pump fluids and the best resistance to radiation. High spontaneous ignition temperature makes this fluid ideal for use in human-rated space simulation chambers.

SiSiB<sup>®</sup> PF8705 is equal to DowCorning's DC-705, Shin-Etsu's HIVACF-5.

## APPLICATIONS

SiSiB<sup>®</sup> PF8705 Diffusion Pump Fluid can be used in a variety of applications including: Aerospace, Electronics, Metallurgy, Vacuum Coatings, and Atomic Energy etc.

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# SiSiB® PF8705 FLUID

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## TYPICAL PHYSICAL PROPERTIES

CAS No.	3390-61-2
EINECS No.	222-222-9
Formula	C <sub>33</sub> H <sub>34</sub> O <sub>2</sub> Si <sub>3</sub>
Molecular Weight	546.88
Chemical Name	Pentaphenyltrimethyltrisiloxane
Color and Appearance	Colorless to straw-colored fluid
Ultimate Vacuum, torr	10 <sup>-9</sup> to 10 <sup>-10</sup> untrapped 10 <sup>-11</sup> trapped
Extrapolated Vapor Pressure, torr, 25°C	3 x 10 <sup>-10</sup>
Specific Gravity at 25°C	1.09
Viscosity at 25°C	175cSt
Flash Point, open cup	243°C,
Boiling Point, 0.5 torr	245°C,
Typical Boiler Temperature	250-270°C,
Surface Tension, dynes/cm	36.5
Heat of Vaporization, kcal/g mol	28.5/250°C,

## PACKING AND STORAGE

SiSiB® PF8705 is supplied in 1Kg bottles, 5Kg 25Kg pails, and 200Kg steel drums.

In the original unopened packaging, SiSiB® PF8705 has a shelf life of 60 months.

## 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.

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Please send all technical questions concerning quality and product safety to: silanes@SiSiB.com.

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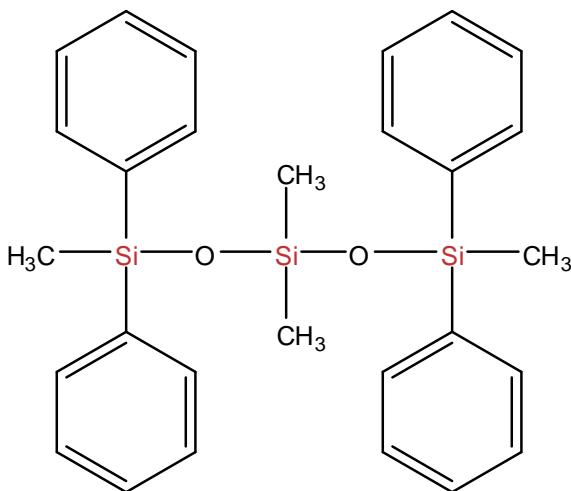
# SiSiB® PF8704 FLUID

- 1 -

## CHEMICAL NAME

1,1,5,5-Tetraphenyl-1,3,3,5-tetramethyltrisiloxane

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB® PF8704 Silicone Diffusion Pump Fluid is a single component fluid designed for high vacuum applications in the range of  $10^{-6}$  to  $10^{-8}$  torr (untrapped) and  $10^{-10}$  to  $10^{-11}$  torr (trapped).

Its low vapor pressure and thermal stability make it popular in processes such as vacuum coating, metallurgical work, and various other applications.

SiSiB® PF8704 is equal to DowCorning's DC-704, Shin-Etsu's HIVACF-4.

## APPLICATIONS

SiSiB® PF8704 Diffusion Pump Fluid can be used in a variety of applications including: Aerospace, Electronics, Metallurgy, Vacuum Coatings, and Atomic Energy etc.

## TYPICAL PHYSICAL PROPERTIES

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# SiSiB<sup>®</sup> PF8704 FLUID

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CAS No.	3982-82-9
EINECS No.	223-620-5
Formula	C <sub>28</sub> H <sub>32</sub> O <sub>2</sub> Si <sub>3</sub>
Molecular Weight	484.82
Chemical Name	Tetramethyltetraphenyltrisiloxane
Color and Appearance	Colorless to straw-colored fluid
Ultimate Vacuum, torr	10 <sup>-7</sup> to 10 <sup>-8</sup> untrapped 10 <sup>-10</sup> to 10 <sup>-11</sup> trapped
Extrapolated Vapor Pressure, torr, 25°C	2 x 10 <sup>-8</sup>
Specific Gravity at 25°C	1.07
Refractive Index at 25°C	1.550~1.560
Viscosity at 25°C	36~44 cSt
Flash Point, open cup	221°C,
Boiling Point, 0.5 torr	215°C,
Typical Boiler Temperature	220°C,
Surface Tension, dynes/cm	37.3
Heat of Vaporization, kcal/g mol	25.5/250°C

## PACKING AND STORAGE

SiSiB<sup>®</sup> PF8704 is supplied in 1Kg bottles, 5Kg 25Kg pails, and 200Kg steel drums.

In the original unopened packaging, SiSiB<sup>®</sup> PF8704 has a shelf life of 60 months.

## NOTES

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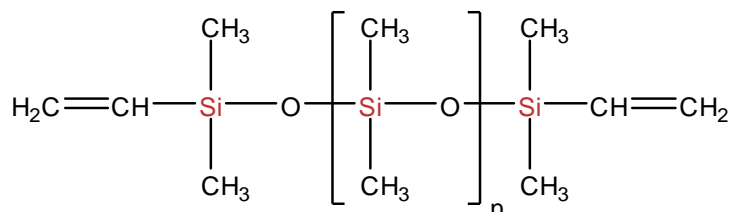
# SiSiB<sup>®</sup> VF6030 Polymer

- 1 -

## CHEMICAL NAME

SiSiB<sup>®</sup> VF6030, Vinyl-terminated polydimethylsiloxane polymers

## CHEMICAL STRUCTURE



## INTRODUCTION

SiSiB<sup>®</sup> vinyl-terminated dimethylpolysiloxanes are available in a variety of viscosities. Vinyl terminated silicone fluid is a base polymer for addition-curing RVT-2k (room temperature vulcanizing two component), LSR (liquid silicone rubber) silicone rubber. The terminal vinyl groups take part in the vulcanization reaction with Crosslinking agents in the presence of Catalysts.

## APPLICATIONS

SiSiB<sup>®</sup> VF6030 can be used as base polymers or as blend polymers in order to create the desired hardness. These polymers can be cured with silicon-hydride crosslinkers and a platinum catalyst.

## TYPICAL PHYSICAL PROPERTIES

Product	SiSiB <sup>®</sup> VF6030
CAS No.	68083-19-2
Color and Appearance	Colorless clear liquid
Active Ingredient	100%
Specific Gravity <sub>25°C</sub>	0.97~0.98
Refractive Index <sub>25°C</sub>	1.3950~1.4120

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# SiSiB® VF6030 Polymer

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Product Name	Vinyl Content	Viscosity
SiSiB® VF6030-6	3.00 mmols/gm	6 cSt
SiSiB® VF6030-10	1.70 mmols/gm	10 cSt
SiSiB® VF6030-20	1.20 mmols/gm	20 cSt
SiSiB® VF6030-50	0.80 mmols/gm	50 cSt
SiSiB® VF6030-100	0.37 mmols/gm	100 cSt
SiSiB® VF6030-200	0.25 mmols/gm	200 cSt
SiSiB® VF6030-250	0.22 mmols/gm	250 cSt
SiSiB® VF6030-400	0.19 mmols/gm	400 cSt
SiSiB® VF6030-500	0.15 mmols/gm	500 cSt
SiSiB® VF6030-1000	0.11 mmols/gm	1000 cSt
SiSiB® VF6030-2000	0.08 mmols/gm	2000 cSt
SiSiB® VF6030-4000	0.07 mmols/gm	4000 cSt
SiSiB® VF6030-5000	0.06 mmols/gm	5000 cSt
SiSiB® VF6030-10000	0.05 mmols/gm	10000 cSt
SiSiB® VF6030-20000	0.04 mmols/gm	20000 cSt
SiSiB® VF6030-65000	0.03 mmols/gm	65000 cSt
SiSiB® VF6030-80000	0.024 mmols/gm	80000 cSt
SiSiB® VF6030-100000	0.02 mmols/gm	100000 cSt
SiSiB® VF6030-165000	0.015mmols/gm	165000 cSt

## PACKING AND STORAGE

SiSiB® VF6030 is supplied in 190Kg steel drum or 950Kg IBC tote.

In the original unopened packaging, SiSiB® VF6030 has a shelf life of one year in a dry and cool place.

## NOTES

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# SiSiB<sup>®</sup> VF6030 Polymer

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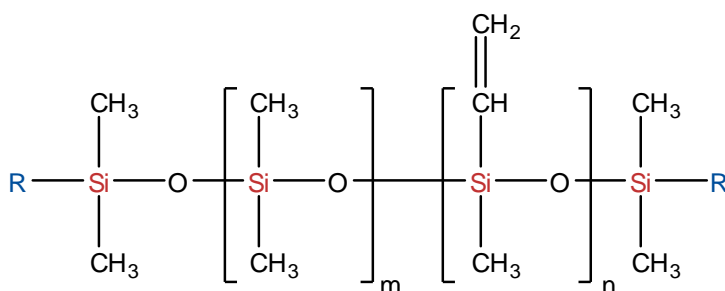
# SiSiB® VF6070 FLUID

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## CHEMICAL NAME

Vinylmethyl-Dimethyl Polysiloxane Copolymers

## CHEMICAL STRUCTURE



R=Vinyl or Methyl

## INTRODUCTION

SiSiB® VF6070 are vinylmethyl-dimethyl-polysiloxane copolymers available in a variety of viscosities & vinyl contents. The products have pendant vinyl groups along the polymer backbone to enhance the crosslink density of the cured RTV (Room Temperature Vulcanization).

## TYPICAL PHYSICAL PROPERTIES

CAS No.	67762-94-1/68083-18-1	
Color and Appearance	Colorless transparent liquid	
Silicone Content	100%	
Specific Gravity 25°C	0.970~0.980	
Volatile Content	Max.1% [150°C, 3hrs]	
	Vinyl content [wt %]	Viscosity 25°C [cst]
SiSiB® VF6070-500V42	0.42	500
SiSiB® VF6070-1000V32	0.32	1000
SiSiB® VF6070-1000V230	2.3	1000

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# SiSiB® VF6070 FLUID

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SiSiB® VF6070-10000V11	0.11	10000
SiSiB® VF6070-10000V35	0.35	10000
SiSiB® VF6070-3000V1000	10.0	3000
SiSiB® VF6070-10000V300	3.0	10000
SiSiB® VF6070-85000V600	6.0	85000

## APPLICATIONS

SiSiB® VF6070 copolymers are mostly used in activated cure systems which involve free radical coupling and addition reactions between the vinyl and methyl groups.

## PACKING AND STORAGE

SiSiB® VF6070 is supplied in 200Kg steel drum or 1000Kg IBC tote.

In the original unopened packaging, SiSiB® VF6070 has a shelf life of one year in a dry and cool place.

## NOTES

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