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
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

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SiSiB® PC1106  Dimethyl Silicone Fluid

Methyl Hydrogen Silicone Fluid

Hydrogen Terminated Silicone Fluid

Methyl Hydrogen Silicone Fluid (Low)
SiSiB® PF2020 FLUID

Ethyl Hydrogen Silicone Fluid

Methyl Phenyl Silicone Fluid

R: Phenyl  R': Methyl or Phenyl

250-30 Phenyl Methyl Silicone Fluid
Diphenyl Methyl Terminated Polydimethylsilicone
Methyl Phenyl Silicone Fluid, Methyl Phenyl Silicone Oil

255 Phenyl Methyl Silicone Fluid
Phenylmethy polysiloxane
Methyl Phenyl Silicone Fluid
Methyl Phenyl Silicone Oil
Diphenylsiloxane Dimethy siloxane Copolymers [68043-14-7]
274 Phenyl Methyl Silicone Fluid
1,1,5,5-Tetraphenyl-1,3,3,5-tetramethyltrisiloxane
274 Super high vacuum diffusion pump oil
Phenylmethylsiloxane Oligomers

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
Methyl Vinyl Silicone Fluid

H₂C=CH-Si-O-Si-O-Si-CH₃

α,ω-silanol-terminated polydimethylsiloxane

OH-endcapped polydimethylsiloxane

HO-Si-O-Si-O-Si-OH

HO-C₃H₆-Si-O-Si-O-Si-C₃H₆-OH

H₂N-C₃H₆-Si-O-Si-O-Si-C₃H₆-NH₂

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SiSiB® PF2020 FLUID

**Introduction**

SiSiB® 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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.</td>
<td>63148-57-2 or 9004-73-3</td>
</tr>
<tr>
<td>Color and Appearance</td>
<td>Colorless clear liquid</td>
</tr>
<tr>
<td>Active Ingredient</td>
<td>100%</td>
</tr>
<tr>
<td>Specific Gravity 25°C</td>
<td>0.990~0.998</td>
</tr>
<tr>
<td>Refractive Index 25°C</td>
<td>1.397</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;200°C</td>
</tr>
<tr>
<td>Volatile Content</td>
<td>&lt;1% [150°C, 2hrs]</td>
</tr>
<tr>
<td>Hydrogen Content</td>
<td>1.6%</td>
</tr>
<tr>
<td>Viscosity 25°C</td>
<td>mm²/s</td>
</tr>
<tr>
<td>SiSiB® PF2020-10</td>
<td>7~15</td>
</tr>
<tr>
<td>SiSiB® PF2020-20</td>
<td>16~24</td>
</tr>
<tr>
<td>SiSiB® PF2020-30</td>
<td>26~34</td>
</tr>
<tr>
<td>SiSiB® PF2020-40</td>
<td>36~44</td>
</tr>
</tbody>
</table>

**Applications**

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

SiSiB® PF2020 may be used for treatment of powders and granular materials to make
them water repellent.

SiSiB® PF2020 may be used for treatment of dry-spayed 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.