

# Technical Data Sheet

## Silicone 6.6.6.A

### Introduction:

**Silicone 6.6.6.A** is a mixture of Allcosil 200/30000, Allcosil 200/125000 & Allcosil 200/350 which gives a 6200 ± 200 centistoke polydimethylsiloxane silicone oil.

### Uses:

- Release agent.  
Used purely or as a part of a compounded formula **Silicone 6.6.6.A** provides a non-toxic, non-carbonising mould release for rubber, plastics and metal die-castings.
- Anti-foam agent.  
Very small quantities of the fluid are very effective as a foam control agent, especially in non-aqueous systems.
- Mechanical fluid.  
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.
- 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.

### Typical Characteristics:

Product Description			
	<b>Appearance</b>	Clear liquid	
	<b>Odour</b>	Characteristic	
Composition			
	<b>Substance</b>	<b>% by Weight</b>	
	Polydimethylsiloxane	100	
Properties			
	<b>Property</b>	<b>Unit</b>	<b>Value</b>
	Viscosity	cSt	6200 ± 200
	Flashpoint	°C COC	>300
	Specific gravity @ 25°C		0.975

### Features and Benefits:

Features:

- Little change in physical properties over a wide temperature range.
- The fluids are thermally stable at 150°C for extended time intervals.
- Excellent water repellence.
- Low surface tension. The fluid readily wets clean surfaces to impart water repellence and release characteristics.
- Low toxicity.

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Benefits:

- Good foam builder
- Imparts soft silky feel to the hair
- Ensures smooth wet shaving foams
- Non-irritant to skin

**Shelf Life:**

**Silicone 6.6.6.A** has an unlimited useful life when stored at ambient temperatures. The product does not freeze and there are no restrictions on storage.

**Packaging:**

200-kilo, 25-kilo and 5-kilo, non-returnable plastic drums.

**Health & Safety:**

Detailed advice on the Health & Safety aspects of this product is given in the individual product Safety Data Sheet (SDS), available upon request.