Technical Data Sheet
Allcosil 1,000

Introduction:

Allcosil 1,000 is a 1,000 centistoke polydimethylsiloxane silicone oil.

Uses:

- Release agent.
  Used purely or as a part of a compounded formula **Allcosil 1,000** 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., MoS2 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			
	Appearance	Clear liquid	
	Odour	Characteristic	
Composition			
	Substance	**% by Weight**	
	Polydimethylsiloxane	100	
Properties			
	Property	**Unit**	**Value**
	Viscosity	cSt	1000
	Flashpoint	°C COC	>300
	Freezing Point	°C	-50
	Specific gravity @ 25°C		0.970
	Surface tension	mN/m	21.2
	Refractive index		1.403

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:

Allcosil 1,000 has a useful shelf life of at least 3 years, when stored at ambient temperatures. The product does not freeze and there are no restrictions on storage. The C of A will state the nominal expiry date, based on an elapsed period from date of manufacture. When this date is reached, the properties of the material can be rechecked and if no deterioration has occurred, the material can be reinstated.

Packaging:

200-kilo, 20-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, and via our Web Site.

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