



產品資料表(DATA SHEET)(COA)

產品品名：充油壓力錶用高純度矽油-20160518

產品編號：D40-57V1000

容量：1kg

Properties：

- Very good resistance to high and low temperature.
- Good combustion resistance.
- Good dielectric properties.
- Low surface tension.
- High compressibility.
- Absence of ageing upon exposure to atmospheric agents.
- Good oxidation resistance.
- Little change in viscosity with temperature.
- Good resistance to high and prolonged shear stress

Applications：

- Thermostatic fluids (- 50 °C to + 200 °C).
- Dielectric fluids (impregnation of paper for condensers).
- Anti-blotting products for photocopying machines.
- Thinning and plastifying agents for RTV's and silicone sealants.
- Lubricating and heat protecting agents for textile threads (synthetic sewing threads).
- Ingredients in maintenance products (polishes, wax polishes, floor and furniture polishes, etc.).
- Paint additives (anti-cratering, anti-floating/flooding and antiscratching effects, etc.).
- Water repellent treatment：- of powders (for paints and plastics), - of fibres：glass fibres.
- Release agents (mould release of plastics and metal castings).
- Lubricants (lubrication of elastomers or plastics on metals).
- Surfactants for styrene-butadiene foam.



• Appearance	Colourless, limpid liquid
• Viscosity at 25 °C, mm ² /s, approx.	1000
• Specific gravity at 25 °C, approx.	0.970
• Flash point (closed cup), °C, approx.	≥ 300
• Freezing point, °C, approx.	-50
• Refractive index at 25 °C, approx.	1.403
• Surface tension at 25 °C, mN/m, approx.	21.1
• Vapour pressure at 200 °C, Pa, approx.	1.33
• Volume expansion coeff. between 25 and 100 °C, approx. ..	$9.45 \cdot 10^{-4}$
• Specific heat capacity between 40 and 200 °C, J/g, °C	1.46
• Thermal conductivity, W/m°C, approx.	0.16
• Viscosity / temperature coeff. (1), approx.	0.62
• Dielectric strength at 25 °C, kV/mm, approx.	16
• Dielectric constant at 25 °C between 0.5 and 100 kHz, approx....	2.80
• Power factor at 25 °C, at 100 kHz, approx.	$1 \cdot 10^{-4}$
• Permittivity at 25 °C, Ω.cm, approx.	$1 \cdot 10^{15}$

(1) Viscosity / temperature coefficient = $1 - (\text{viscosity at } 100 \text{ °C} / \text{viscosity at } 40 \text{ °C})$