



## TECHNICAL DATA SHEET

### CANSOFT 36.

#### Description

Cansoft 36 is a concentrated emulsion of Polydimethylsiloxane (Silicone oil) in water.

The product is based upon an improved formulation, which produces a smaller particle size resulting in a “blue” micro-emulsion appearance. As a consequence of the smaller particle size the product is more stable in its concentrated form, less viscous and more stable to dilution with water. Due to this smaller particle size of the product it gives improved performance in use and offers better release properties, lubricity and gloss in numerous industrial and speciality chemical applications.

The emulsion is non-ionic and is compatible with many anionic and cationic materials as well as other non-ionics. The product is also heat stable and chemically un-reactive. It will not build up or discolour and contains an additive to give increased anti-static properties.

#### Specification

Appearance	White liquid with “bluish” tinge.
Solids content	36 - 40

#### Typical Properties (not part of specification)

Brookfield Viscosity	30 cps
Specific Gravity	0.99
Dilution stability to 10% in water	Remains stable for greater than 1 hour
pH (as is)	6 – 8

#### Typical Applications

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Information given in this publication is based upon technical data gained in our own and other Laboratories and is believed to be true. However if the material is used in conditions beyond our control we can assume no liability for results obtained or damages incurred through the application of the data present herein.

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CANSOFT 36.

## Printing

Cansoft 36 is used in heat-set, web offset printing machines. The product is especially useful for high-speed magazine printing applications since it conditions the webs which improves resistance to high temperatures, increases tolerance to shear forces and offers good anti-blocking properties and mechanical stress. High quality papers can be conditioned with Cansoft 36 to produce sharper edges and reduce friction on the guide rollers.

Cansoft 36 enhances the properties of the finished product. Colour intensity, gloss and feel are all improved qualities from using silicone emulsions. This product also confers some antistatic properties so that little or no additional antistatic is required.

Typically, in heat-set web offset printing applications, dilution to a final silicone level of 3-7% is used.

## Release agents

Cansoft 36 can be used as a release agent to prevent moulded parts sticking to the mould or charring. The emulsion achieves clean contours and allows for close tolerances. The moulded part has a slightly shiny finish, which reduces subsequent scratches. Typical applications include foundry release, tyre re-mould, food packaging and industrial rubber hose manufacture.

## Textiles

Silicone emulsions have a wide variety of uses in the textile industry. Cansoft 36 is also suitable as a spinning lubricant in the manufacture of synthetic fibres particularly polyurethane fibres. The lustre and softness of the finished article is also improved.

## Polishes and Cleaners

Cansoft 36 can be incorporated into water based products such as car trim and dashboard polishes, wood and plastic furniture polishes and shoe and leather care products where a high gloss is required. The good spreading ability and lubrication eases polishing and improves scratch resistance as well as enhancing the gloss and depth of colour. Water repellency is improved by the hydrophobic effect of the silicone oil in the emulsion. Cansoft 36 can also be utilised in cleaning and rinsing formulations e.g. car wash / wax formulations, since the emulsion has cleaning properties whilst the residual silicone produces a "beading" wax effect.

## **Packages**

Available in 25kg kegs, 200kg drums or 1 tonne bulk containers.