



TECHNICAL DATA SHEET

SILICONE EMULSION 642/60

Description

642/60 is a concentrated emulsion of Polydimethylsiloxane (Silicone oil) in water. The emulsion is stable, water dilutable and offers good 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.

Typical Properties

Appearance	White liquid
Solids content	58-62%
Specific Gravity	Approx. 1.00
pH	6-8

Typical Applications

Release agents: 642-60 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. 642/35% can be diluted for more efficient use depending on the application. Typically dilution to a final silicone level of 3-7% is used.

Polishes and Cleaners: 642-60 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. 642-60 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.

Textiles: Silicone emulsions have a wide variety of uses in the textile industry. 642-60 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.

Packages

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

Shelf Life

12 Months From date of manufacture, Protect from Frost at all times.