



Silicones, known to chemists as polyorganosiloxanes, have a unique chemical structure of alternating silicon and oxygen atoms. This uniqueness has led formulators to produce high performance specialty chemicals which perform outstanding functions.

Aerol formulates various products based on these silicones that help industries to produce high quality products.

Further information is categorized into six parts, namely

Silicone Fluids
Silicone Emulsions
Silicone Defoamers/ Antifoams

Silicone Free preparations
Silicone Sprays
Silicone Sealers & Solutions



Silicone Fluids

Afra™ Silicone Fluids are liquids available in a wide range of viscosities and have several outstanding features such as resistance to high and low temperatures without thermal decomposition or major change in viscosity, resistance to attack by chemicals, water and harsh environment, high flash point, inert, non-toxic, excellent dielectric properties, low surface tension and high refractive index.

They find application as di-electric fluids, damping fluids, impregnants, lubricant and lubricant additives, heat transfer medium, metal quenching, ingredient in cosmetics, polishes, paints, chemicals and pharmaceutical preparations. They are used to formulate release preparations, defoamers/antifoams, water repellent & water proof preparations, synthetic lubricants, textile softeners and finishing preparations.

Grade	Type/ Properties	Standard Viscosity(cst)	Pack Size
0200	Low viscosity Dimethyl fluid	25, 50, 100 & 200	10, 35 kg.
0200	Med. viscosity Dimethyl fluid	350, 500 & 1000	10, 35 Kg
0200	High viscosity Dimethyl fluid	5K, 10K, 12.5K & 30K	10, 35 Kg
0200	Very high viscosity Dimethyl fluid	60K, 100K, 200K & 300K	5, 50 Kg.



Afra™ Silicone Emulsions

Afra™: Silicone Emulsions are water dilute-able emulsion of Polydimethylsiloxane fluids. These emulsions are chemically inert, non-toxic, non-flammable and non-hazardous. They possess low surface tension and superior wetting properties. These Silicone Emulsions are particularly suited for mould release applications during rubber molding and metal casting because they form films of low adhesion and can therefore be applied to Moulds to prevent adhesion of the moulded articles. They are also used as water soluble lubricants, paper and textile finishing agents, as a polish ingredient. Various grades of Silicone Emulsions are being formulated with respect to their solid contents.

Grade	Type/ Properties	Solid Contents	Pack Size
2000	Milky white emulsion	21%, w/w	35 Kg
2050	Viscous milky white emulsion	26%, w/w	35 Kg
3050	Viscous milky white emulsion	36%, w/w	35 Kg
3043	Viscous milky white emulsion	43%, w/w	35 Kg



Silicone Antifoams/ Defoamers

Afra™ Silicone Antifoams/ Defoamers are extensively used where product or process foaming problems are encountered. Added in very small quantities they destroy unwanted foam. Silicone antifoam agents/ defoamers are generally more effective than organic antifoam agents. Aerol produces various antifoaming agents/ defoamers that are broadly classified in two categories - Aqueous & Non Aqueous.

The chemically inert nature of these product facilitates its use as defoamer/ antifoam in Pharmaceutical, Food, Beverage, Cosmetics, Paint, Petroleum, Soaps, Adhesive, Rubber, Paper and Chemical processing.

Grade	Type/ Properties	Silicone Contents	Pack Size
9030	Aqueous, Milky white emulsion	30%, w/w	35 Kg
9610	Aqueous, Milky white emulsion	10%, w/w	35 Kg
0955	Non-aqueous, viscous oily fluid	100%, w/w	35 Kg