

POLSIL® E-1, POLSIL® E-2, POLSIL® E-3, POLSIL® E-5, POLSIL® E-5S

Silicone emulsions

PRODUCT DESCRIPTION

POLSIL® E – water emulsions of POLSIL® OM methylsilicone fluid. These are milky-white liquids easily mixed with water, smooth to touch, with a specific smell. They are chemically inert. The following types of emulsion are manufactured:

- emulsion with methylsilicone fluid content of 36%: POLSIL® E-1, POLSIL® E-2
- emulsion with methylsilicone fluid content of 60%, with an antistatic agent: POLSIL® E-3,
- emulsion with methylsilicone fluid content of 60%: POLSIL® E-5S and POLSIL® E-5 with an addition of organic solvent.

PHYSICAL AND CHEMICAL PROPERTIES

PARAMETER	VALUE				
	POLSIL® E-1	POLSIL® E-2	POLSIL® E-3	POLSIL® E-5	POLSIL® E-5S
Density at 20°C, g/cm ³	0,99 – 1,01	0,99-1,01	0,99-1,01	0,99-1,01	0,99 – 1,01
Methylsilicone fluid content, %	34– 36	34– 36	56– 60	56– 60	56– 60
pH	6,5 – 9,0	6,5 – 9,0	6,5-10,5	6,5 – 9,0	6,5 – 10,5
Viscosity at temperature 25°C, cP	below 20	below 150	below 3500	below 350	below 3000

Once water evaporates, a thin layer of silicone fluid is formed on the surfaces covered with emulsion, which gives the objects a shine, hydrophobic and antiadhesive properties.

APPLICATION

In industry, silicone emulsions are used mainly as:

- antiadhesive agent for moulds in founding and plastic and rubber processing: POLSIL® E-1 , POLSIL® E-2
- an additive to car cosmetics and household chemistry products: POLSIL® E-3
- antiadhesive agents in rubber processing: POLSIL® E-5, POLSIL® E-5S

POLSIL® E-1, POLSIL® E-2 and POLSIL® E-3 are used for household purposes to clean, polish and preserve:

- imitation leather (armchairs, car upholstery, shoes, clothes),
- plastic products and flooring,
- rubber products (tire side surface, fridge, freezer, washing machine and car gaskets),
- ceramic and plastic bathroom floor and wall tiles,
- varnished surfaces.

NOTE! Do not use for tire treads and windscreen wipers. Floors cleaned with silicone emulsion may become excessively slippery.

USAGE

POLSIL® E silicone emulsions may be used as is or diluted with water. It is recommended to dilute with soft water, although hard water might be used as well. Concentration of the solution should be adjusted experimentally to each particular application. The emulsion is usually diluted in a ratio of from 1 to a dozen or several dozen parts of water to one part of emulsion. Note that diluted emulsion is not unstable and water phase may separate. Such an effect may appear once the 36% emulsion is diluted in ratio higher than 1:1, and 60% emulsion in ratio higher than 1:2. Therefore it is recommended to prepare such a quantity of the solution that can be used within 24 or 48 hours. To fix broken emulsion mix and shake it well and use it within a short period of time.

Storage:

POLSIL® E emulsion should be stored in original, tightly closed containers, in dry storage rooms, in temperature from 5 to 30°C, far away from any heat sources. **Protect against frost.**

Warranty period:

POLSIL®E-1 and E-2 – 12 months

POLSIL® E-3, POLSIL® E-5, POLSIL® E-5S - 6 months from the date of manufacture.

Packaging:

1,5, 30, 1000 kg

Producer's notes

The information contained in this document is given in good faith based on our current knowledge. However, this shall not constitute a guarantee for any specific product features. Each user bears the full responsibility for making its own determination as to the suitability of product for its own particular purpose. Because actual use of product by the user is beyond our control, such use is within the exclusive responsibility of the user, and we cannot be held responsible for any loss incurred through incorrect or faulty use of the product. For more detailed information please contact us in writing or by phone.



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