

## LK-EM 45

**LK-EM 45** is silicone oil based aqueous emulsion containing non-ionic surfactants. Acts as a barrier and forms a thin film between the compound and the mould surface.

It is mainly used as a mould release agent in foundries, also has wide application in the rubber and plastics industries. It is one of the component elements in making of polishes and cleansers for artificial leather fabrics and furniture polishes.

### FEATURES

- Non-reactive
- Non - Corrosive
- Effective at lower concentrations
- Easy to dilute using water
- Effective at wide range of temperature
- No smoking, breakdown, carbonization, buildup on molds and dies
- Surface of mould becomes abrasion resistant and water-repellent

### APPLICATIONS

#### Release Agent

- Tyre manufacturing
- In Cold tyre remolding process
- Mechanical rubber goods
- Hot water bottles
- Lubricating and release agent in fabric sizing and other textile applications
- Soles and heels
- Fiberglass release
- Thermoset intricate parts
- **General purpose release agent**

#### Surface Finish

- Foundries
- Latex
- Surgical gloves
- Hawaii chappals
- Furniture polishes
- Rubber bands

### PRODUCT SELECTION GUIDE

PRODUCT CHART					
Product Name	Specific Gravity @ 25 Deg.c.	Appearance	Viscosity @ 25 Deg.c. (By Ford Cup B5) in CPS	Solid Content (%) 110°C for 2 hour	PH
LK-EM 45	0.98	Milky white	50 – 100	40-42	6 – 8

## SUGGESTED APPLICATION METHOD AND FORMULATION

The best diluent for LK-EM 45 silicone oil emulsion is cold water. These emulsions are stable up to reasonable levels of water hardness (200 ppm).

### Suggested Use:

1. After estimation of the required quantity of emulsion required, pre-dilute the emulsion in cold water under low shear (to ensure efficient dispersion). Use this pre-diluted material. Total use of pre-diluted material is adjusted as per application.
2. Agitate the product prior to use. For sufficiently high levels of agitation, step 1 may be ignored.
3. It is applied equally through out the mould surface by brushing, dipping or spraying. After application, mould surface is allowed to dry. Application of excess quantities should be avoided as it leads to surface irregularities.

### PACKING

50 kg H.D.P.E. carboys and 200-kg drums

### SHELF LIFE

Six months in the original container.

### STORAGE & HANDLING

It is recommended that normal safety precautions (hand gloves & safety goggles) be taken while handling the product. The material should be stored in original ELKAY containers in a cool place and protected from direct exposure to sunlight.

The information provided to the customers in this data sheet is intended as a guideline and is provided in good faith. The Information is believed to be accurate. Changes may occur from system to system as methods of use and conditions are beyond our control, hence **users are requested to evaluate the recommendations before actual application to get desired performance.**

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Internal References: DX50301