

TECHNICAL DATA SHEET

ISO 9001: 2015 CERTIFIED

LEEPOL ET-1

INCI Name: Acrylates Copolymer

Description:

Leepol ET-1 is a lightly cross linked acrylate polymer. It is specifically designed to impart efficient suspending and stabilizing as well as thickening properties, to formulations containing high levels of surfactants with high clarity.

It is a low odor liquid, containing 30% active polymer in water that is easily used in aqueous formulations.

Typical Applications:

- Conditioning Shampoos
- Antidandruff shampoos
- Baby Shampoos
- Conditioning Body Washes
- Bath Gels
- Facial Cleansers
- Pearlized Cleansing Products
- Low pH Applications

Typical Physical Properties:

Parameter	Typical Properties
Appearance	Milky white liquid
Odor	Mild organic
Apparent viscosity	NMT 25 cps
Brookfield RVT Viscosity (1.0% Active polymer in water pH 7.5, 20 rpm at 25°C)	2,500 cps — 6,000 cps
Brookfield RVT Salt Viscosity (1.0% Active polymer in water pH 7.5 with 0.2% NaCl, 20 rpm at 25°C)	400 cps — 1200 cps
Residual Solvent Ethyl acrylate	NMT 1 ppm

Advantages:

- Easy-to-use liquid form
- Easily dispersible in water without much stirring
- Excellent suspension and stabilization properties at low viscosity as well as high viscosity.
- Acts as co-emulsifiers in oil based formulations.
- Excellent thickening and flow control
- Clear and transparent formulations
- Effective pH flexibility with surfactant based formulations and stability at pH 3.5-10.0
- Excellent compatibility with virtually all non-ionic, anionic and amphoteric surfactants
- Enhance visual impart of mica and other Pearlized additives to improve Pearlization
- Synergistic thickening with salt.

Neutralizers:

Leepol polymers are dry, highly coiled acidic molecules. After dispersion in water, it begins to hydrate and partially uncoil. Maximum thickening can be achieved by converting the acidic Leepol polymer to neutral pH.

Neutral pH is easily achieved by neutralizing the Leepol range with recommended neutralizers to adjust the pH of Leepol range solution are:

- Sodium hydroxide (NaOH),
- Potassium hydroxide (KOH),
- Triethanolamine (TEA),
- Ammonia (28%) & other alkalies.

Toxicity:

Leepol range is high molecular weight polymer. It does not absorbed by body tissues and is totally safe for human oral consumption.

Test for toxicological tolerance shows that it does not have any pronounced, physiological action and is non-toxic.

Storage and handling:

Store in a tightly closed container and away from direct contact with water and excessive humidity condition.

Shelf life:

Five year from the date of manufacturing in intact condition.

Packing:

5 kg, 20 kg and 50 Kg net weight in plastic carboys, HDPE drums.