

ISO 9001 : 2015 (QMS)
Certified CompanyISO 14001 : 2015 (EMS)
Certified Company

Leepol™ Carbomers | Leepol™ Coats | Leepol™ HCO
Acids | Chemicals | Solvents | Dyes | Pigments | APIs
Hazardous Waste Management



TECHNICAL DATA SHEET

ISO 9001: 2015 CERTIFIED
DATE OF REVISION: MAY-2021

LEEPOL™ 934

INCI Name: Carbomer

CAS No: 9003-01-4

Description:

LEEPOL™ 934 is a synthetic high molecular weight cross linked polyacrylate polymer. It offers excellent stability at medium and high viscosity and has short properties in aqueous system.

It produces thick formulations for opaque gels, emulsions, creams and suspensions. It is extensively used in the pharmaceutical topical formulations and cosmetic creams.

Typical Applications:

- Gel, Lotions and Ointments
- Oral liquids, Suspension and Emulsion
- Topical Application
- Hair Care
- Taste Masking
- Creams
- Hand, body and face lotions
- Sustained release formulation by matrix system.
- Ophthalmic gel and eye lotion
- Transdermal drug delivery.

Typical Physical Properties:

Parameter	Typical Properties
Appearance	White, fluffy powder
Odor	Mildly acidic
Brookfield Viscosity (25°C, 0.5% aqueous gel neutralized)	30,500 — 39,400 mPas
pH 1 wt% dispersion	2.5 — 3.0
pKa	6.0 ± 0.5
Carboxylic acid content	Between 56.0 % to 68.0%
Temperature Stability	Upto 75°C
Residual Solvent (Benzene)	NMT 0.5%

THE LEEA HOUSE

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Advantages:

Thickening efficiency	High viscosity at low concentration
Uniform performance	Carbomer gives uniform viscosity performance
Temperature stability	There is no significant effect of temperature on viscosity performance
Unaffected by aging	Excellent shelf life
Safety	Years of successful use of Carbomer
Microbial resistance	Resists bacterial attack and do not supports mould growth.
Versatility	Although primarily used in aqueous system with neutralization, it can also be used in solvent systems, with or without neutralization.
Elegance	Smooth and luxurious feeling

Regulatory Status:

United States (USP/NF)

Carbomer Homopolymer

Europe (Ph. Eur.)

Not covered by the Carbomer Monograph Polymer in the European Pharmacopeia which includes a stipulation that benzene is limited to 2 ppm.

Japan (JPE)

Carboxyvinyl Polymer

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™ Carbomer range with recommended neutralizers to adjust the pH of Leepol™ Carbomer range solution are:

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

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Toxicity:

Leepol™ Carbomer 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:

20 kg net in corrugated box with polyethylene liner.

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