



Kadpol

Water Soluble Polyacrylic Acid

DESCRIPTION:

KADPOL range are synthetic, high molecular weight cross-linked polymers of acrylic acid, which conform to USP/BP/NF specifications "CARBOMER"

USE:

KADPOL range, are water soluble polymer use to :

Thicken To produce wide range of viscosities and flow properties.

Suspend Insoluble ingredients.

Stabilize Emulsion.

GRADE AND APPLICATIONS:

There are three grades and use in different applications.

KADPOL 940 / 980:

KADPOL 940 forms sparkling clear transparent gel in aqueous or hydroalcoholic solutions, it attains thickening at high viscosity and sparkling clear transparency. Suitable for use in cosmetics and topical application etc...

- Tooth paste
- Shampoos
- Cleansing milk lotion
- Room freshner gel
- Hair, skin and moisturizing creams
- Shaving gel and sunscreen lotion
- After shave lotions

KADPOL 934 / 974:

For Thick formulations such as heavy gels, suspensions, emulsions for topical preparation, Hair, skin and moisturizing creams.

KADPOL 934P / 974P:

- High purity oral pharmaceutical grade for formulations.
- Gel, lotion and ointment.
- Oral liquid, suspension and emulsion.
- Sustained release formulation by matrix system.
- Ophthalmic gel and eye-lotion.
- Transdermal (skin) drug delivery.
- Taste masking



ADVANTAGES:

Thickening efficiency	High viscosities at low concentrations.
Uniform performance	Reproducibility unattainable with natural gums.
Safety	Years of successful use of carbomers.
Temperature stability	Extended up to 75° c. Heating or cooling
Unaffected by aging	Excellent shelf life.
Microbial resistance	Resists bacterial attack and does not support mold growth.
Versatility	Although primarily used in aqueous systems with neutralization. It can also be used in solvent systems, with/without neutralization.
Elegance	Smooth and luxurious feeling.



KADPOL

CHILLING PROPERTIES :

On refrigeration KADPOL gel can retaining the cool the temperature level for 48 hours to 72 hours. Low temperature necessary for vaccines, taxoids, insulin and human albumin can be store in pre-refrigerated KADPOL gel, making it as a suitable medium for transporting these medicines.

SPECIFICATIONS :

Appearance	White fine free flowing powder.
PH of 1 % solution	2.5 to 3
Temperature stability	Up to 75° c.
GRADES	VISCOSITY (20° c, 0.5% neutralization)
KADPOL 934/974	30,000-40,000 cps.
KADPOL 934P/974P	29,500-39,500 cps.
KADPOL 940/980	40,000-60,000cps.
KADPOL ELT 10	20,000-35,000 cps.
KADPOL ELT 21	45,000-65,000 cps.
KADPOL ELT 20	45,000-70,000 cps. (1% neutralization)

PREPARATION OF AQUEOUS TRANSPARENT GEL. :

D. M. Water	- 97.0 gm.
KADPOL (Any Grade)	- 0.5 gm.
Sodium hydroxide (10% solution)	- 2.5 gm.

NEUTRALIZERS RECOMMENDED :

- Sodium hydroxide
- potassium hydroxide
- Triethanol amine
- Triethyl amine, other alkalis etc...
- Ammonium Solution - Di-Iso Propanolamine
- Di-(2.Ethylhexyl)amine

TOXICITY :

KADPOL is a high, molecular weight polymer. It is not absorbed by body tissues and is totally safe for human oral consumption. Test for toxicological tolerance show that it does not have any pronounced, physiological action and is non-toxic.

STORAGE :

Store in cool dry place. Keep away from moisture and water .

PACKING :

5 kg., 20 kg., net in laminated corrugated box with polyethylene liner.