

**TECHNICAL DATA SHEET****CARBOMER SA-980****INCI Name: Carbomer****CAS No: 9003-01-4****Description:**

CARBOMER SA- 980 is a synthetic high molecular weight cross linked polyacrylate polymer. It is very efficient Rheology modifier, which provides high viscosity and forms sparkling clear water or hydro-alcoholic gels.

It is very efficient thickener among all the grades, having an extremely short flow property. It is suitable for use in high viscous liquids or gels for cosmetics and pharmaceutical industries.

**Typical Applications:**

- Hair styling gel
- Hydro-alcoholic gel
- Moisturizing gel
- Bath gel
- Tooth paste
- Shampoos
- Shaving gel, after shaving lotion
- Moisturizing cream and sun screen lotions
- Pharmaceutical gels & ointment.
- Cleaning cream
- Skin fresher

**Typical Physical Properties:**

Parameter	Typical Properties
Appearance	White, fluffy powder
Odor	Slight characteristic odor
Brookfield Viscosity (25°C, 0.5% aqueous gel neutralized)	40,000 –60,000 mPa.s
Loss on drying	NMT 2%
Residual Solvent (ethyl acetate, cyclohexane)	NMT 0.5%

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Company Registration Number: 2024/207290/07 | Customs Code: CU25551293

## Advantages:

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

## Regulatory Status:

### United States (USP/NF)

CARBOMER SA-980

### Europe (Ph. Eur.)

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

### Japan (JPE)

Carboxyvinyl Polymer

## Neutralizers:

Carbopol 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 Carbopol polymer to neutral pH.

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

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

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**Toxicity:**

Carbopol 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.