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Technical Data Sheet

Carbopol 980

Product Information

Chemical Name	Carbopol 980
CAS #	9003-01-4
Formula	(C ₃ H ₄ O ₂) _n
Synonyms	Carbopol 980, Carbomer 980

Carbopol 940 is a cross-linked polyacrylate polymer used in personal care gels and creams as a high-efficient rheology modifier. It is capable of providing high viscosity, excellent thickening and suspending performance with low-dosage. Its short flow (non-drip) properties are ideal for applications such as clear gels, hydroalcoholic gels, creams. When neutralized by alkali it forms sparkling clear water or hydroalcoholic gels and creams.

Features and Benefits

- Short flow properties
- High viscosity
- High suspending, thickening and stabilizing ability
- High clarity

Recommended Applications

- Hair styling gels
- Hydroalcoholic gels
- Moisturizing gels
- Bath gels
- Hand, body and face lotions
- Creams

Formula Guidelines

Typical recommended dosage at 0.2-1.0 wt %.

To disperse Carbomer940 completely, it should be slowly and carefully sprinkled to dispersion medium while

the mix is stirred rapidly to avoid formation of lumps; extremely high shear rate mixer should be carefully employed to avoid viscosity loss.

The ideal viscosity can be achieved at pH ranges of 5.0~10.0 when neutralized; In a hydroalcoholic system, a correct neutralizer must be chosen carefully based on the amount of alcohol to be gelled.

After neutralization, high-shear and lasting stirring should be avoided to keep stable thickening ability.

Specification

Appearance	Fluffy, White powder
Viscosity (20r/min,25°C, mpa.s)	13000-30000(0.2% aq solution) 40000-60000(0.5% aq solution)
Solution Clarity (420nm,%)	≥85(0.2% aq solution) ≥85(0.5% aq solution)
Heavy metals(mg/kg)	≤10
Packing density(g/100ml)	21.00-27.00
Loss on drying (%)	≤2.0
Residual Acrylic acid (%)	≤0.25
Residual Benzene(%)	≤0.50

Packaging

Standard Packing: 20kg cardboard box with PE lining

Storage:

Storage & Handling

Keep tightly closed in cool, dry and well-ventilated area.

Shelf Life: 24 months

Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

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