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**Hefei TNJ Chemical Industry Co.,Ltd.**

B911 Xincheng Business Center,  
Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418695

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnchem.com

## Technical Data Sheet

### Carbomer 940

#### Product Information

Chemical Name	Carbomer 940
CAS #	9003-01-4
Formula	(C <sub>3</sub> H <sub>4</sub> O <sub>2</sub> ) <sub>n</sub>
Synonyms	Carbopol 910, 934, 934P, 940, 941

Carbomer 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)	19000-35000(0.2% aq solution) 40000-70000(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)	19.5-23.5
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.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.*

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