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Technical Data Sheet

Basic information

Chemical name	Carbomer 940	Formula	(C ₃ H ₄ O ₂) _n
Synonyms	Carbopol 940		
CAS.No.	9003-01-4		
EINECS No.	202-415-4	Chemical structure	N/A
Molecular weight	N/A		

Physical properties

Acrylic polymers (Carbomer) are a class of high molecular weight, Water-soluble polymer and rheology modifier. It is a proven exceptional thickener, suspending agent and stabilizer utilized in a wide variety of personal care products. Carbomer is an extremely efficient rheology modifier capable of providing high viscosity and 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

Specification

Items	Specification
Appearance	Fluffy, White powder
Viscosity (20r/min, 25°C), mpa.s	19,000-35,000(0.2% aq solution)
	40,000-60,000(0.5% aq solution)
Solution Clarity (420nm), %	≥85(0.2% aq solution)
	≥85(0.5% aq solution)
Heavy metals, mg/kg	As ≤2
	Pb+As+Hg+Sb ≤10
Packing density, g/100ml	21 ~ 27
Loss on drying, %	≤2.0
Residual Acrylic acid, %	≤0.25
Residual Ethyl Acetate/Cyclohexane, %	≤0.45
0.5% aqueous solution pH value	2.5-3.5

Application

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 NM-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.

Package

20kg/box in 20'ft container, 4mt with pallets, 5.5mt without pallets;

Safety on transportation

It belongs to common goods, always refer to MSDS.

Storage and handling

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

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, In no event shall we be liable for any claims, losses, or damages of any third party resulting from its use.

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