

2 minutes application break

Carbopol

MixSing Vacuum



Facts

Origin America

Dates back 1957

Ingredients Polyacrylic acid polymer

A thickening, suspending, and emulsifying agent in personal care and household products.

Design

Shear	CFD simulations confirms $>200,000 \text{ s}^{-1}$
Design	According to European legislation and CE marked
Hygiene	Complying with EHEDG guidelines
Viscosity	Up to 1,500 cP
Accessories	Vacuum system
Materials	Stainless steel: AISI 316L. All materials: EC 1935

Insight

Carbopol is a polymer used as a thickening and emulsifying agent in a wide variety of personal care and cosmetic products. It is a crosslinked polyacrylic acid polymer available in several grades, each with its unique properties and characteristics.

The history of Carbopol can be traced back to the 1950s, when the Goodrich Corporation, now known as Lubrizol, first began developing the polymer. In 1957, the company received a patent for using Carbopol in aqueous systems. By the early 1960s, it had become a popular thickening and stabilizing agent in various personal care and cosmetic products.

Carbopol is known for its ability to thicken and stabilize various formulations, including gels, creams, lotions, and suspensions. It is a highly effective rheology modifier and can create a wide range of textures and viscosities in personal care and cosmetic products. In addition to its thickening properties, Carbopol is an excellent emulsifying agent, helping keep oil and water-based ingredients mixed in a stable emulsion.

Carbopol is typically used in 0.1-1% concentrations, depending on the desired viscosity and texture. It is a water-soluble polymer, so it must be hydrated before

use. The hydration process can take a few minutes to several hours, depending on the specific grade of Carbopol being used and the desired final viscosity.

Carbopol has been used in many personal care and cosmetic products for decades, including gels, creams, lotions, shampoos, and toothpaste. It is also used in various industrial and household products, including paints, inks, adhesives, and cleaning products.



The power of simplicity

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