Product:	**Imacarbo 980**
INCI Name:	**Carbomer**
CAS:	**9003-01-4**
Synonyms:	**Carbomer, Carbopol, Carboxypolymethylene, carboxyvinyl polymer, Polyacrylic acid**

Description:

IMACARBO are synthetic polymers of high-molecular-weight, hygroscopic cross-linked acrylic acid. Dispersed and neutralized in aqueous media or with various organic solvents, they form an exceptionally effective thickener, suspending agent, and stabilizer used in a wide variety of products.

Ideal for applications in cosmetic, sanitation, and automotive products in water- and alcohol-based gels.
Hydroalcoholics with a differentiated sensory, velvety and easy to spread, without the sensation of stickiness, and maintaining transparency.

Physicochemical characteristics:

Appearance: Powder
Color: White
Odor: Slightly acetic

Properties and uses:

It is an acrylic acid polymer used as an emulsion stabilizer and viscosity agent to produce crystalline, glossy aqueous or hydroalcoholic gels. It has a strong thickening, gelling, and suspending effect; used in formulas such as solutions, suspensions, creams, gels, and ointments.

As an emulsifier, it is used in the preparation of emulsions for topical use, when the proportion of fats is to be reduced.
As gelling agents, carbomers form transparent neutral gels (to form the gel it is necessary to neutralize with a base such as triethanolamine or a sodium hydroxide solution).
Transparency depends on the solvents and active ingredients used.

Advantages:

Excellent clarity;
Emulsion stabilization; High
thickening and suspension efficiency; Various viscosity
options for a wide range of product textures; Excellent vertical adhesion to improve surface
contact time; Excellent stability; Promotes instant thickening after neutralization.

SPECIFICATIONS:

Performance Tests	Unit	Minimum	Maximum	Frequency Tests	Procedure
Brookfield Viscosity / 25°C (1) 0.5% Carbomer	CPs	40,000	60,000	Each batch	IMA / 062
Clarity, % Transmittance	%	90	100	Each batch	IMA / 037
Residual Ethyl Acetate	%		0.45	Each batch	USP / NF
Residual cyclohexane	%		0.45	Each batch	USP / NF
Total residual solvent	%		0.45	Each batch	USP / NF
Loss on drying	%		2	Each batch	USP / NF
Solids (2)	%	> 98		Each batch	IMA / 026
Heavy metals (Pb, To the , Hg , Sb) ppm			10 ppm	Every 200 lots	IMA / 004

USP/NF: United States Pharmacopeia/National Formulary
(1) Brookfield RVDV-1, Sp07/20 rpm, neutralized pH 7.3 - 7.8 with NaOH
(2) 1 gram of polymer, 90°C for 10 min

Manufactured and packaged by: Imagraf Chemical Industry Ltda.

Packaging: Available in 20kg boxes

Storage and handling: Store in a dry, well-ventilated area at room temperature.

See the safety data sheet for detailed information.

Lifespan: 2 years if stored properly and packaging is closed (as described in the safety data sheet).