

	TECHNICAL SHEET IMACARBO CLEAR PLUS	Date of issue: 06/26/2020
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Product: IMACARBO CLEAR PLUS
INCI Name: Carbomer
CAS Number: 9003-01-4

Description: IMACARBO CLEAR PLUS is a high-molecular-weight, water-soluble, cross-linked acrylic acid (carbomer) polymer that modifies rheology. It is an exceptionally effective thickener, suspending agent, and stabilizer used in a wide variety of products for home, industrial, and institutional use.

Ideal for applications in cosmetic, sanitation, and automotive products in water- and alcohol-based gels.

Hydroalcohols 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:

High thickening efficiency (0.2 to 1.0%) for very economical formulas; Suspension and stabilization of insoluble and particulate materials; Improved vertical adhesion that minimizes dripping and increases surface contact time; Extremely fast and easy dispersion profile; Very efficient viscosity builder at lower solids in a

Acrylic acid polymer used as an emulsion stabilizer and viscosity agent to produce crystalline, glossy aqueous or hydroalcoholic gels. It has a 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 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:

Benzene Free
Excellent transparency;
Emulsion stabilization;
High efficiency in thickening and suspension;
Various viscosity options for a wide range of textures

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product;

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	45,000	55,000	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, As, Hg, Sb) ppm USP / NF: United States			10 ppm	Every 200 lots	IMA / 004

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

packed 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).