

	TECHNICAL SHEET IMACARBO EW21	Date of issue: 06/26/2020
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Product: IMACARBO EW 21
INCI Name: Acrylates/C10-30 Alkyl Acrylate Crosspolymer
CAS Number: 176429-87-1

Description: IMACARBO EW21 is a polymeric emulsifier of predominantly high molecular weight polyacrylic acid. Its unique structure allows for rapid wetting and particle suspending.

IMACARBO EW21 is used in a wide range of cosmetic gels; it functions as a rheology modifier based on its ability to achieve moderate to high viscosity in a formulation. This is due to the expansion of the molecule when mixed with water-based ingredients. Polymers are formed from large chains of monomers, which are molecules that can bond to each other. The formation of acrylates/C10-30 alkyl acrylate crosspolymer occurs when C10-30 acrylate is combined with acrylic acid and methacrylic acid monomers.

It is also indicated for surfactant-free formulations that contain electrolytes.

Features
physical-chemical: Appearance: Light powder
 Color: White
 Odor: Slightly acetic

Properties and uses: Excellent sensory properties.
 Rheology modifier Uses:
 General cleaning, body and hair products.

Advantages: Suitable for surfactant-free formulations containing electrolytes.

 Rapid wettability, without the need for a disperser; Stabilizes and keeps insoluble ingredients in suspension; Creates medium to high viscosities; Allows for super-clear gel formulations; Dry and smooth touch; Efficient, easy to use, excellent cost-benefit.

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SPECIFICATIONS:

Performance Tests	Unit	Minimum	Maximum	Frequency Tests	Procedure
Viscosity (0.5% Carbomer)(1) CPS 45,000	65,000			Each batch	IMA /062
Viscosity (1% carbomer + 1% salt) in water (2)	CPS 4,000				
Viscosity (3% carbomer) in water (2)	CPS 3,500				
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
Wetting time (3)	MIN		10	Each batch	USP / NF
Solids (4)	%	> 98		Each batch	IMA / 026
Heavy metals (Pb, As, Hg, Sb) ppm USP / NF: United States Pharmacopeia/National Formulary (1) Brookfield RVDV- 1 Viscometer, 20 rpm, sp7, 25°C, neutralized with NaOH, pH 7.3 – 7.8.			10 ppm	Every 200 lots	IMA / 004

Pharmacopeia/National Formulary (1) Brookfield RVDV- 1 Viscometer, 20 rpm, sp7, 25°C, neutralized with NaOH, pH 7.3 – 7.8.

(2) In water without neutralizing, after 3 hours.

(3) 100ml distilled water + 0.5% polymer.

(4) 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).