



AGENAJEL CLEAR

PRODUCT DATA SHEET

Pregelatinized modified potato starch

GENERAL DESCRIPTION

- AGENAJEL CLEAR is an instant (= cold water swelling) modified potato starch.
- INCI Name: Hydroxypropyl Starch Phosphate
- CAS No.: 53124-00-8
- Appearance: white fine, floury powder
- Odour: pure, specific

ANALYSIS DATA

- Moisture: max. 10,0 %
- pH-value (visc. solution): 5,0 – 7,5
- Viscosity (3% i.ds) Brookfield 50rpm: approx. 3.500 mPa.s

MICROBIOLOGY:

- | | | |
|--------------------------------------|------------|-------------------|
| • Total plate count: | max. 200/g | ISO 4833-1 |
| • Yeast: | max. 20/g | ISO 7954 |
| • Mould: | max. 20/g | ISO 7954 |
| • E. coli: | 0/g | ISO 16649-2 |
| • Salmonella: | neg./25g | ISO 6579-1 |
| • Gram negative bacteria: | neg./g | AV 092 (internal) |
| • Coagulase-positive staphylococcus: | neg./g | Pharm.Eur. 2.6.13 |
| • Candida albicans: | neg./g | ISO 18416 |

STORAGE AND MINIMUM SHELF-LIFE

- If properly stored under dry conditions (max. 70 % relative humidity): min. 60 months

PACKING

- In multiwall paper-bags of 25 kg (1 one way pallet = 30 bags = 750kg)

CUSTOMS TARIFF NUMBER

- 3505 1050

APPLICATION FIELDS

- hair applications
- skin creams & lotions
- natural thickener in aqueous PC-formulations
(shower gels, hair and face masks, hair gel, styling mousse, aqueous hair care applications etc.)

APPLICATIONAL INFO:

- AGENAJEL CLEAR is used as natural rheology modifier in personal care emulsions and gels, frequently in combination with xanthan.
- It provides good transparency (especially in comparison to other starch thickeners)
- It can be used also for jelly textures.
- It is recommended to make re-dispersion of AGENAJEL CLEAR in oil or glycerine, if feasible. In water, intensive stirring is required to disperse the product without lumping.
- AGENAJEL CLEAR is a powder and can be used also for cold processed formulations.
- It is compatible with commonly used cosmetic raw materials.

GEL PRODUCTION INSTRUCTIONS:

AGENAJEL CLEAR is particularly suitable for thickening of natural hair styling gels.

Guide formulations natural hair styling gel with AGENAJEL CLEAR and AGENABON 20.219.

Phase	Ingredient / INCI	Supplier	% w/w
A	Demin. water		73,2
	Glycerine		4
	Sodiumbenzoate		0.6
	AGENABON 20.219 / Hydrolyzed Corn Starch	AGRANA	10
B	AGNAJEL CLEAR / Hydroxypropyl Starch Phosphate	AGRANA	7.0
	Propylene Glycol Alginate		0.5
	Xanthan Gum		0.5
C	Ethanol		4.0
	Fragrance		0.2
	Citric Acid		q.s.
Total			100

Procedure:

Mix all ingredients of phase A and heat up to 70°C. Add phase B to phase A, whilst stirring and homogenize 2 min with Ultraturrax. Cool Down to 45°C, and add phase C and add citric acid for pH 5,3.

With AGENAJEL CLEAR natural based, semi-transparent hydrogels can be produced. AGENABON 20.219 is an excellent natural based styling polymer.



Above stated information is indicative only and no responsibility can be assumed. Recommendation is made to check suitability of our product by doing tests on your own.