



AGENAJEL 20.350 PRODUCT DATA SHEET

Modified waxy corn starch

GENERAL DESCRIPTION

- AGENAJEL 20.350 is a distarch phosphate based on non-GMO waxy corn.
- AGENAJEL 20.350 shows an excellent thickening capacity and good stability against heat and freeze/thaw stress.
- AGENAJEL 20.350 is "natural" - compliant to COSMOS-standard.
- Appearance: white to yellowish, fine, floury powder
- Odour: pure, specific
- INCI Name: distarch phosphate
- CAS No: 55963-33-2
- EC No.: 611-338-9

ANALYSIS DATA

- | | | |
|-----------------------|------------------|--------------------------------------|
| • Moisture: | max. 14.0 % | rapid dryer, 160 °C, constant weight |
| • pH-value: | 5.0 – 7.0 | 1% solution |
| • Viscosity: | | |
| after reaching 95 °C: | 1.000 – 1.300 BU | Brabender – 6.25% i.s., 350 cmg cup |

MICROBIOLOGY

- | | | |
|---------------------------|-------------|-------------------|
| • Total plate count: | max. 1000/g | ISO 4833-1 |
| • Coliforms: | max. 20/g | ISO 4832 |
| • E. coli: | 0/g | ISO 16649-2 |
| • Yeast: | max. 20/g | ISO 7954 |
| • Mould: | max. 20/g | ISO 7954 |
| • Salmonella: | neg./25g | ISO 6579-1 |
| • Gram negative bacteria: | neg./g | AV 092 (internal) |

STORAGE AND SHELF LIFE

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

PACKING

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

CUSTOMS TARIFF NUMBER

- 3505 1050



APPLICATION FIELDS

- Creams & lotions
- Natural thickener in aqueous PC-formulations

PROPERTIES AND APPLICATION

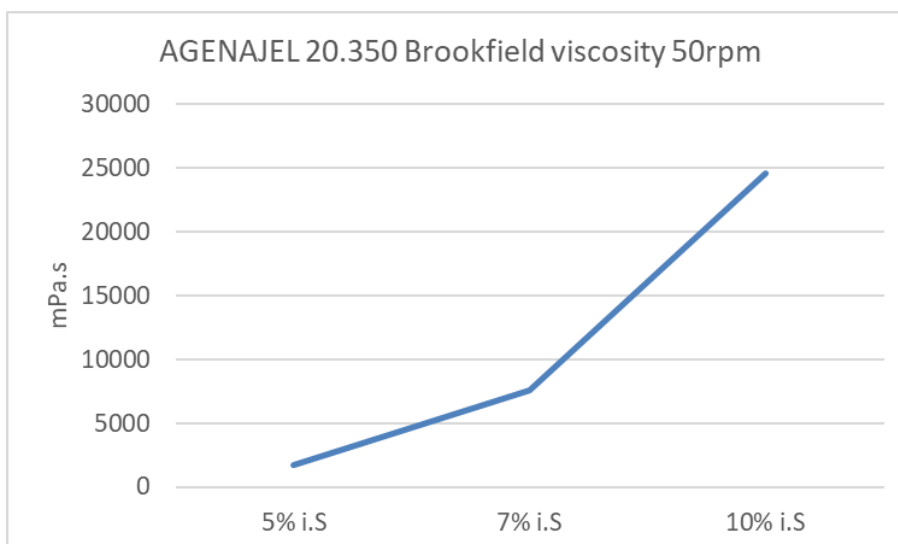
- AGENAJEL 20.350 is a rheology modifier and creaminess enhancer in aqueous applications, frequently in combinations with xanthan. If added with adjusted amounts, it can replace synthetic thickeners like carbomers without loss of functionality.
- AGENAJEL 20.350 is a cook up starch need of high gelatinization temperature. It shows shear-thinning effects with rapid viscosity recovery.
- Applications as thickener: shampoos and face washes (both SLES free), creams & lotions
- AGENAJEL 20.350 leads to opaque formulations.

PROCESSING

- For thickening, AGENAJEL 20.350 has to be stirred in in cold water and heated up $> 80^{\circ}\text{C}$ in aqueous phase with continuous stirring until it is homogenous. In shampoos, we recommend an addition of 3-6%.

VISCOSITY Brookfield (indicative information, not part of specification)

Viscosities depending on concentration. Aqueous cooking (15 min $> 80^{\circ}\text{C}$). Viscosity measurement with Brookfield RV at room temperature.



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.