



CORN PO4 PH "B" PRODUCT DATA SHEET

sterilizable maize starch

GENERAL DESCRIPTION

- CORN PO4 PH „B“ is a special starch (phosphate cross-linked starch) used for applications in the cosmetic industry and as dusting powder.
- CORN PO4 PH „B“ is a white, slipping and flowing, odourless powder with neutral pH-value and low bacterial count.

- INCI Name: Distarch phosphate
- CAS No: 55963-33-2
- EINECS No.: 232-679-6
- Chemical characteristic: Di-starch phosphate ester on base of corn starch

ANALYSIS DATA

- | | | |
|--------------------------------|---------------|--|
| • pH-value: | 5,5 – 7,0 | method
10% slurry |
| • Sedimentation (ml): | 45 – 75 ml | 10% cooked slurry,
graduated cylinder |
| • Chloride (in dry substance): | max. 1500 ppm | Titration |
| • Sulphate (in dry substance): | max. 2000 ppm | Titration |
| • Total ash: | max. 1,5 % | glow residue at 650 °C |
| • Moisture: | max. 6,0 % | dry residue at 130 °C
according to ISO 1666 |
| • Heavy metals: | max. 10 ppm | AAS |

MICROBIOLOGY

- | | | |
|---------------------------|--------------|-----------------|
| • Total plate count: | max. 100/g | ISO/Pharm. Eur. |
| • Yeasts: | max. 10/g | ISO/Pharm. Eur. |
| • Moulds: | max. 10/g | ISO/Pharm. Eur. |
| • E. Coli: | negative/g | ISO/Pharm. Eur. |
| • Staphylococcus aureus: | negative/g | ISO/Pharm. Eur. |
| • Pseudomonas aeruginosa: | negative/g | ISO/Pharm. Eur. |
| • Enterobacteriaceen: | negative/g | ISO/Pharm. Eur. |
| • Salmonella | negative/10g | ISO/Pharm. Eur. |



STORAGE AND MINIMUM SHELF-LIFE

- If properly stored under dry conditions (max. 70 % relative humidity) and well protected from heat: 36 months

PACKING

- In multiply paper bags of 25 kg with PE-lining
(1 EU-pallet = 21 bags = 525 kg)

CUSTOMS TARIFF NUMBER

- 3505 1050

PROPERTIES AND APPLICATION

- Powder base for antimicrobial, disinfecting, astringent or keratolytic powder preparation like baby powder, loose face powders, body and foot powders, rouge, eye shadow and compact powders.
- In Emulsions:
 - silky skin-feeling
 - reduces the oiliness
 - protracted liberation of the actives (aromas etc)
 - pronounced matt imparting properties
- Filler for pharmaceutical preparations
- As a result of the drastically reduced moisture content, CORN PO4 PH „B” adsorbs and binds considerable amounts of sweat and skin moisture, thus keeping the skin dry over prolonged periods. In addition to this, CORN PO4 PH „B” possesses a large specific surface area, that is, 1 g has a surface area of approx. 800 cm². This means that 1 g of CORN PO4 PH „B” can adsorb 0,6 g of water without losing its powder characteristics, a considerable advantage compared with talc.
- Processing Hints
When processing CORN PO4 PH „B” one should ensure that this boil-proof starch should be well dispersed using strong stirring in the hot-water phase at 60 – 85 °C at which also other ingredients are dissolved. Stirring should be conducted for at least 10 minutes at the chosen temperature. The over-dried needs this time to reach the high absorption of the water phase. Subsequently medium stirring is made to emulsify the oil phase. The starch tends to sedimentation if the water phase is not stirred any more: If the starch is emulsified shows both a high stability and storage capability whereby the large active surface of the starch is contributory.

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.