

CORN PO4 PH „B“ PRODUCT DATA SHEET

Natural, cook-up stable 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 based of maize (corn) starch

ANALYSIS DATA

- pH-value: 5,5 – 7,0
- Sedimentation (ml): 45 – 75 ml
- Chloride (in dry substance): max. 1500 ppm
- Sulphate (in dry substance): max. 2000 ppm
- Total ash: max. 1,5 %
- Moisture: max. 6,0 %
- Heavy metals: max. 10 ppm

method

10% slurry
10% cooked slurry,
graduated cylinder
ion chromatography (IC)
ion chromatography (IC)
glow residue at 650 °C
dry residue at 130 °C
to ISO 1666
AAS

MICROBIOLOGY

- Total plate count (/g): max. 100 ISO 4833-1
- Yeasts (/g): max. 10 ISO 7954
- Moulds (/g): max. 10 ISO 7954
- E. Coli (/g): neg. ISO 16649-2
- Pseudomonas aeruginosa (/g): neg. Pharm.Eur. 2.6.13
- Enterobacteria (/g): neg. ISO 21528-1
- Salmonella (/25g): neg. ISO 6579-1
- Gram negative bacteria (/g): neg. AV 092 (internal)
- Coagulase-positive staphylococcus (/g): neg. Pharm.Eur. 2.6.13
- Candida albicans (/g): neg. ISO 18416

CERTIFICATION

- CORN PO4 PH „B“ is approved as “registered raw material – **BDIH** certified natural cosmetic” and corresponds to **NaTrue**-criteria for natural cosmetics.

Registered Raw Material BDIH



Certified Natural Cosmetics



STORAGE AND MINIMUM SHELF-LIFE

- If properly stored under dry conditions (max. 70 % relative humidity): 60 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
CORN PO4 PH“B” should be well dispersed using strong stirring in the (cold or hot) water phase in which also other ingredients are dissolved. Stirring should be conducted for at least 10 minutes. The starch tends to sediment if the water phase is not stirred any more.

Subsequently medium stirring is made to emulsify the oil phase.

If the starch is emulsified it shows both a high stability and high absorption capability due to the large active surface.

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.