



Modified Starch FARMAL™ MS 5110

Hydrophobic free-flowing modified corn starch obtained through the chemical conversion of the corn starch, with pharmaceutical grade.

Specifications:

Physical Chemical:

| | Min. | Max. |
|---------------------------|--|-------------|
| Ash, % | - | 1.00 |
| pH | 5.5 | 6.5 |
| Screen test on USS#100, % | 99.0 | - |
| Moisture, % | - | 14.0 |
| Aspect | White Powder (A)(Free of lumps and black specks) | |

Bacteriological:

| | m | M |
|--------------------------------------|---------------------|----------|
| Bacillus Cereus, cfu/g (n=5,c=0) | 10 | - |
| Fecal coliform, MPN/g (n=5,c=0) | <0.3 | - |
| Total Coliform, MPN/g (n=5,c=0) | <0.3 | - |
| Total Plate Count, cfu/g (n=5,c=0) | 100 | - |
| E. coli/10 g (n=5, c=0) | N.D. (Not Detected) | - |
| Yeast and Molds, cfu/g (n=5,c=0) | 100 | - |
| Salmonella/Shigella, /25g (n=5,c=0) | N.D. (Not Detected) | - |
| Staphylococcus aureus, /5g (n=5,c=0) | N.D. (Not Detected) | - |

n: number of samples units chosen separately and independently;

c: maximum allowable number of results between m and M;

m: level of the test organism which is acceptable and attainable in the product;

M: upper acceptable concentration of a test organism. A count above M for any sample unit is unacceptable.

Main Uses:

Creams and lotions, Antiperspirant deodorant, Make up, Powdered make up, Sun blocker

Features and Benefits:

- Adsorbes moisture without caking.
- Enhances the visual whiteness of a deodorant stick without contributing to whitening upon application to the skin
- Provides water proof effects to the formulation.
- Due to its high fluidity can be used in a widely variety of formulations where free flowing characteristics are desired.
- Polymer with smooth, velvety feel properties.
- Reduces the perceived oiliness of formulations, leaving a soft, dry and matte finish on the skin.

Packaging- Shelf Life:

Paper bag 25 kg - 365 days

Storage:

Store in proper warehousing conditions.

Regulatory Data:

CAS: 9087-61-0
EINECS: -

INCI-Name: Aluminum Starch Octenyl-succinate
EU Phr:Maydis amyllum

21CFR172.892
Brazilian Pharmacopeia

Res. RDC nº481, 09/23/99-ANVISA (Brazil)
U.S. Pharmacopeia 28th Ed.

dec 14, 2005

This information is presented in good faith, but is not to be construed as a warranty or binding promise. It is offered solely for your consideration, investigation and verification. Corn Products International, Inc. and its affiliates expressly disclaim all warranties, expressed or implied, including but not limited to, warranties of merchantability, accuracy, fitness for use or for a particular purpose and noninfringement. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to sales of products by Corn Products International, Inc. and its affiliates.

All trademarks are owned by Corn Products International, Inc. or its affiliates.



Av. do Café, 277 - 2º andar - Torre B
04311-000 - São Paulo - SP
Tel.: (11) 5070-7700 Fax: (11) 5070-7831
www.cornproducts.com.br