



Westar+ cationic flake corn starch

Why Westar+?

- **More uniform coating and floccing** - Corn flakes disperse much faster than potato flakes creating a more uniform product.
- **Higher fired and green strengths** - Corn micelles are half the size of potato micelles, resulting in higher strength, hardness and density.
- **No cooking or pre-dissolving** - Readily dispersing flakes can be added dry directly to the slurry tank, providing more accurate additions, reduced bacterial attack, with less labor and equipment.
- **Made in the USA** - Corn starch does not suffer from periodic shortages and currency fluctuations as do the European potato starches ..
- **Reduces costs** - Our flake corn starch requires 30% less colloidal silica than potato starches for optimum floccing so less binder is required.

Typical Properties

Appearance	White flakes
Bulk Density, pcf	18 - 24
Nitrogen Content, wt %	0.20
pH, 6% solution	6 - 8
Viscosity (cP), 6% Solids	50 - 300
LVT, 60 RPM, #2 Spindle	
Ionic Character	Cationic
Moisture, wt%	10 max
Size, % passing 4750 micron	100%
Size, % passing 300 micron	1 - 15%
Packaging	35 lb kraft paper bags, 40 bags/ skid

Westar+ Cationic Flake Corn Starch was developed specifically for floccing colloidal silica onto refractory fibers for bonding of vacuum formed composites and shapes. Westar+ is pre-cooked, the flakes dissolve readily in cold water without lumping, and corn starches offer advantages over potato starches.

How to Use Westar+

Westar+ Cationic Flakes disperse so readily they can be added dry directly to the slurry tank after dispersion of fibers and fillers.

Typical Formulation:

		with filler	with filler	with filler
Water, Gallons	50	50	50	50
Refractory Fiber, lbs	8	8	8	8
Mullite 100 filler, lbs	----	4	----	4
Westar+ Starch, lbs.	0.4	0.6	0.4	0.6
Levasil FO1440, lbs	0.8	1.2	----	----
Levasil FO2040, lbs	----	----	1.0	1.5

Follow above order of addition. Add Westar+ Flakes dry and mix for 10 minutes to allow hydration and swelling of starch before adding colloidal silica (Levasil); mix another 5 minutes to complete floccing before vacuum forming. Dry at 250°F.

Note proper use: For best results, always add starch to slurry before the colloidal silica; the cationic starch serves to give a cationic charge to the fibers for efficient exhaustion of the negatively charged silica particles on fibers.

Storage, Handling and Safety

Because of the hygroscopic nature of Westar+ it is highly recommended that the material be stored in its original package in a dry facility. Shelf life can be affected by storage conditions such as temperature, humidity and overall surroundings of the storage area.

For a price quote and valuable information on how we can help you improve your vacuum formed products call

WESBOND
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