

Offer Sheet

Product	Ethylex corn starch
Quantity	7 loads (each load is a different grade)
Net weight	2.8 million pounds
Manufacture date	Not expired
Availability	One time
Location	FOB Decatur, IL 62521
Date	6/19/25
COA & SDS	Attached below

If interested, please call or text:

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Solvent Systems International
70 King St.
Elk Grove Village, IL 60007
847-323-6718 call or text
Click here for: [Surplus Inventory](#)
[Solvent-Systems.com](#)

Here are the primary **commercial applications** for **Ethylex® corn starch** (a hydroxyethylated corn starch), which is tailored for industrial-grade performance:

1. Paper & Pulp (Surface Sizing & Coating)

- Enhances **paper surface strength** and “hold-out” properties when applied via size press or calender stacks, reducing penetration of inks or coatings [knowde.com+6bio-sourced.com+6adhesives.specialchem.com+6](#).
- Delivers **stable viscosity and water retention**, leading to smoother operation and better film formation with pigments and latex binders [bio-sourced.com+1knowde.com+1](#).

2. Adhesives & Sealants

- Acts as a **binder and film former**, providing strong adhesive properties while maintaining system cleanliness and process stability [media.knowde.com+8adhesives.specialchem.com+8feedthembetter.com+8](#).
- Compatible with resins like polyvinyl alcohol and latex, supports high solids formulations, and ensures consistent viscosity over time and temperature changes [bio-sourced.com+1knowde.com+1](#).

3. Coatings & Industrial Films

- Used in starch-based coatings (e.g., paper, board) and edible packaging films, often plasticized, to create **flexible, grease- and water-resistant layers** [patents.google.com](#).
- Suitable as a **gelatin substitute** in capsules or soft gels, enabling edible/inert coatings with lower cost and biodegradability .

4. Textile & Leather Processing

- Utilized as a **warp-sizing agent** to strengthen fibers before weaving, especially in cotton or polyester fabrics .
- Improves **surface finish and sizing uniformity**, while integrating well with synthetic and natural polymers .

Key Functional Properties Driving Use

- **Viscosity stability** over prolonged operation and temperature fluctuation
- **Effective film formation**, providing clarity, flexibility, and resistance
- **High water holding capacity**—critical in sizing and coating processes
- **Chemical compatibility** with binders like PVA, latex, pigments, and resins

Brief Use Summary

- **Paper/Pulp:** Surface sizing, pigment coatings—enhance paper quality and barrier performance
- **Adhesives/Sealants:** Eco-friendly binder with controlled viscosity
- **Coatings/Films:** Base for edible, flexible films; gelatin alternative
- **Textiles/Leather:** Fiber sizing for strength and smoothness

Product	Lot Number		Net. Weight	QC comment
ETHYLEX® 2075 PD	DE25A01754		187,000.00 LB	BS: High FM
ETHYLEX® 2075 PD	DE25A00109		193,400.00 LB	br - low pH 5.8
ETHYLEX® 2025 PD	DE24B00440		187,300.00 LB	br - low he, high sludge OOS
ETHYLEX® 2025 PD	DE24C03804		188,650.00 LB	br - high pH,
ETHYLEX® 2025 PD	DE24J01990		181,300.00 LB	BR: high pH/
ETHYLEX® 2025 PD	DE24L04326		181,000.00 LB	br - blend low, rva high so2
ETHYLEX® 2025 PD	DE25A03606		182,450.00 LB	br - blending high so2
WALLBOARD BD PD	DE25C00239		190,300.00 LB	br - out on rva (low)

ETHYLEX® 2025 Hydroxyethylated Starch

2610000480300, 2610000490300, 2610000424520, 2610000425320,
2610000415021, 26100004

Product Description: ETHYLEX® starches demonstrate excellent viscosity stability over time and show little change in viscosity due to temperature fluctuations.

Quality Inspection Plan (Official Specification Values)

Parameter	Target	Range/ Attribute	Unit	Method
MOISTURE		10.0 - 13.0	%	Moisture - TN46550
FOREIGN MAT, VISUAL		<= 10	ppm	Foreign Matter - TN32555
pH		6.0 - 8.0		pH - TN60550
ASH		<= 1.00	%	Ash - TN09560
COLOR		6.0 - 9.0		Color - TN22570
SLUDGE 8%		<= 2.00	ml	Sludge - TN72530
RVA VISC DSB		700 - 1500	cps	RVA Viscosity - TN90558

Product Composition / Labeling

Industrial Starch-Modified

Regulatory Status

Compliance Statement:

- Complies with FDA Regulation 21CFR178.3520 as Industrial Starch Modified. It also complies with 21CFR176.170 (Components of paper and paperboard in contact with aqueous and fatty foods) and 21CFR176.180 (Components of paper in contact with dry foods). There are no limitations on the usage levels per these regulations.
- Approved under German BfR recommendation XXXVI.

Storage Conditions

Container	Storage Temperature	Storage conditions to achieve maximum shelf life
Bulk Truck, Railcar, Bulk Bag, Multiwall Bag		Store at ambient temperature and humidity.

Shelf Life

Package	Shelf Life
Bulk Truck, Railcar, Bulk Bag, Multiwall Bag	730 Days

Certificate of Analysis

Supplier's Shipment Date

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Truck/Trailer/Container

Delivery

Item

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Order

Item

Customer Number

Customer Reference No

Material Our Reference / Your Reference

2610000490300 ETHYLEX® 2025
HYDROXYETHYLATED STARCH PD /

Produced by : 1101

Batch : DE25A03606 / Quantity : 0 Internal Ref field : FLASH 3-1

Production Date : 23-JAN-25 Best Before Date : 23-JAN-27

Inspection Lot : 40000684590

Parameter	Value	Lower Limit	Upper Limit	Method
FOREIGN MAT, VISUAL(ppm)	20		10	Foreign Matter - TN32555
pH	7.2	6	8	pH - TN60550
COLOR	7.8	6	9	Color - TN22570
SLUDGE 8%(ml)	0.4		2	Sludge - TN72530
RVA VISC DSB(cps)	1010	700	1500	RVA Viscosity - TN90558
MOISTURE(%)	12.2	10	13	Moisture - TN46550
ASH(%)	0.76		1	Ash - TN09560

Seals for batch: 0623681 0623682 0623683 0623684 0623685 0623686 0623687 0623688
0623689 0623690

Certificate of Analysis

Supplier's Shipment Date

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Truck/Trailer/Container

Delivery

Item

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Order

Item

Customer Number

Customer Reference No

Material Our Reference / Your Reference

2610000490300 ETHYLEX® 2025
HYDROXYETHYLATED STARCH PD /

Produced by : 1101

Batch : DE24B00440 / Quantity : 0 Internal Ref field : FLASH 4

Production Date : 04-FEB-24 Best Before Date : 03-FEB-26

Inspection Lot : 40000643376

Parameter	Value	Lower Limit	Upper Limit	Method
FOREIGN MAT, VISUAL(ppm)	5		10	Foreign Matter - TN32555
pH	7.3	6	8	pH - TN60550
COLOR	7.9	6	9	Color - TN22570
SLUDGE 8%(ml)	3.6		2	Sludge - TN72530
RVA VISC DSB(cps)	1487	700	1500	RVA Viscosity - TN90558
MOISTURE(%)	12	10	13	Moisture - TN46550
ASH(%)	0.5		1	Ash - TN09560

Seals for batch: 4761 4762 4763 4764 4765 4766 4767 4768 4769 4770

Certificate of Analysis

Supplier's Shipment Date

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Truck/Trailer/Container

Delivery

Item

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Order

Item

Customer Number

Customer Reference No

Material Our Reference / Your Reference

2610000490300 ETHYLEX® 2025
HYDROXYETHYLATED STARCH PD /

Produced by : 1101

Batch : DE24C03804 / Quantity : 0 Internal Ref field : FLASH 4-3

Production Date : 20-MAR-24 Best Before Date : 20-MAR-26

Inspection Lot : 40000648655

Parameter	Value	Lower Limit	Upper Limit	Method
FOREIGN MAT, VISUAL(ppm)	5		10	Foreign Matter - TN32555
pH	8.8	6	8	pH - TN60550
COLOR	6.8	6	9	Color - TN22570
SLUDGE 8%(ml)	0.2		2	Sludge - TN72530
RVA VISC DSB(cps)	808	700	1500	RVA Viscosity - TN90558
MOISTURE(%)	10.6	10	13	Moisture - TN46550
ASH(%)	0.78		1	Ash - TN09560

Seals for batch: 0418651 0420651 0420652 0420653 0420654 0420655 0420657 0420659
 0420797 0420800

Certificate of Analysis

Supplier's Shipment Date

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Truck/Trailer/Container

Delivery

Item

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Order

Item

Customer Number

Customer Reference No

Material Our Reference / Your Reference

2610000490300 ETHYLEX® 2025
HYDROXYETHYLATED STARCH PD /

Produced by : 1101

Batch : DE24J01990 / Quantity : 0 Internal Ref field : FLASH 4

Production Date : 12-OCT-24 Best Before Date : 12-OCT-26

Inspection Lot : 40000673207

Parameter	Value	Lower Limit	Upper Limit	Method
FOREIGN MAT, VISUAL(ppm)	10		10	Foreign Matter - TN32555
pH	9.3	6	8	pH - TN60550
COLOR	7.6	6	9	Color - TN22570
SLUDGE 8%(ml)	0.6		2	Sludge - TN72530
RVA VISC DSB(cps)	1226	700	1500	RVA Viscosity - TN90558
MOISTURE(%)	10.4	10	13	Moisture - TN46550
ASH(%)	0.77		1	Ash - TN09560

Seals for batch: 0639171 0639172 0639173 0639174 0639175 0639176 0639177 0639178
0639179 0639180

Certificate of Analysis

Supplier's Shipment Date

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Truck/Trailer/Container

Delivery

Item

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Order

Item

Customer Number

Customer Reference No

Material Our Reference / Your Reference

2610000490300 ETHYLEX® 2025
HYDROXYETHYLATED STARCH PD /

Produced by : 1101

Batch : DE24L04326 / Quantity : 0 Internal Ref field : FL4-3

Production Date : 24-DEC-24 Best Before Date : 24-DEC-26

Inspection Lot : 40000681461

Parameter	Value	Lower Limit	Upper Limit	Method
FOREIGN MAT, VISUAL(ppm)	5		10	Foreign Matter - TN32555
pH	7.7	6	8	pH - TN60550
COLOR	7.7	6	9	Color - TN22570
SLUDGE 8%(ml)	0.4		2	Sludge - TN72530
RVA VISC DSB(cps)	379	700	1500	RVA Viscosity - TN90558
MOISTURE(%)	11.1	10	13	Moisture - TN46550
ASH(%)	0.59		1	Ash - TN09560

Seals for batch: 0592461 0592462 0592463 0592464 0592465 0592466 0592467 0592468
0592469 0592470

Certificate of Analysis

Supplier's Shipment Date

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Truck/Trailer/Container

Delivery

Item

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Order

Item

Customer Number

Customer Reference No

Material Our Reference / Your Reference

2610012690300 ETHYLEX® 2075
HYDROXYETHYLATED STARCH PD /

Produced by : 1101

Batch : DE25A00109 / Quantity : 0 Internal Ref field : FL3-1

Production Date : 01-JAN-25 Best Before Date : 01-JAN-27

Inspection Lot : 40000682453

Parameter	Value	Lower Limit	Upper Limit	Method
MOISTURE(%)	11.2	10	13	Moisture - TN46550
FOREIGN MAT, VISUAL(ppm)	2		10	Foreign Matter - TN32555
pH	5.8	6	8	pH - TN60550
COLOR	7.4	6	9	Color - TN22570
RVA VISC DSB(cps)	946	500	1500	RVA Viscosity - TN90558
ASH(%)	0.3		1	Ash - TN09560

Seals for batch: 0622392 0622393 0622394 0622395 0622396 0622397 0622398 0622400
0630128 0630130

Certificate of Analysis

Supplier's Shipment Date

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Truck/Trailer/Container

Delivery

Item

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Order

Item

Customer Number

Customer Reference No

Material Our Reference / Your Reference

2610012690300 ETHYLEX® 2075
HYDROXYETHYLATED STARCH PD /

Produced by : 1101

Batch : DE25A01754 / Quantity : 0 Internal Ref field : FL3-3

Production Date : 11-JAN-25 Best Before Date : 11-JAN-27

Inspection Lot : 40000683525

Parameter	Value	Lower Limit	Upper Limit	Method
MOISTURE(%)	11.3	10	13	Moisture - TN46550
FOREIGN MAT, VISUAL(ppm)	50		10	Foreign Matter - TN32555
pH	7.7	6	8	pH - TN60550
COLOR	7.1	6	9	Color - TN22570
RVA VISC DSB(cps)	1424	500	1500	RVA Viscosity - TN90558
ASH(%)	0.56		1	Ash - TN09560

Seals for batch: 0581966 0633049 0633050 0633411 0633412 0633413 0633414 0633417
0633418 0633419 0633420

Certificate of Analysis

Supplier's Shipment Date

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Truck/Trailer/Container

Delivery

Item

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Order

Item

Customer Number

Customer Reference No

Material Our Reference / Your Reference

2610020590300 WALLBOARD BINDER PD /

Produced by : 1101

Batch : DE25C00239 / Quantity : 0 Internal Ref field : FLASH 2 - 3

Production Date : 03-MAR-25 Best Before Date : 03-MAR-27

Inspection Lot : 40000688622

Parameter	Value	Lower Limit	Upper Limit	Method
MOISTURE(%)	12.1	9	13	Moisture - TN46550
pH	8.2	5	9	pH - TN60550
RVA VISC 17.5% PEAK(cps)	876	1500	3000	RVA Viscosity - TN90578
RVA VISC 17.5% FINAL(cps)	557	450	1250	RVA Viscosity - TN90579
FOREIGN MAT, VISUAL(ppm)	2		20	Foreign Matter - TN32555

Seals for batch: 0621191 0621192 0621193 0630811 0630812 0630814 0630817 0630818
0630819 0630820

WALLBOARD BINDER Starch

2610020580300, 2610020590300, 2610020525320, 2610020524520,
2610020515021, 26100205

Quality Inspection Plan (Official Specification Values)

Parameter	Target	Range/ Attribute	Unit	Method
MOISTURE		9.0 - 13.0	%	Moisture - TN46550
FOREIGN MAT, VISUAL		<= 20	ppm	Foreign Matter - TN32555
RVA VISC 17.5% PEAK		1500 - 3000	cps	RVA Viscosity - TN90578
RVA VISC 17.5% FINAL		450 - 1250	cps	RVA Viscosity - TN90579
pH		5.0 - 9.0		pH - TN60550

Product Composition / Labeling

Industrial Starch-Modified

Regulatory Status

Compliance Statement:

- Complies with FDA Regulation 21CFR178.3520 as Industrial Starch - Modified.
- Approved under German BfR recommendation XXXVI & XXXVI/2 - Regulations 1935/2004 and 2023/2006.
- This product complies with the definition of 'polymer' under REACH. Polymers are exempted from registration.

Storage Conditions

Container	Storage Temperature	Storage conditions to achieve maximum shelf life
Bulk, Multiwall Bag, Bulk Bag		Store at ambient temperature and humidity.

Shelf Life

Package	Shelf Life
Bulk, Multiwall Bag, Bulk Bag	730 Days

Production Facilities

For more information, please consult the Product Information Sheet for

WALLBOARD BINDER Starch