



PRODUCT CATALOG

6 SERIES • 29 GRADES

F-T WAX / PE WAX / OXIDIZED WAX / SPECIALTY WAX

Zibo Heyee Fine Chemical Co., Ltd.

Zibo Heyee Fine Chemical Co., Ltd.

www.heyeechem.com | Annual Capacity: 60,000 Tons

00 Contents

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01

Company Overview

COMPANY OVERVIEW

Zibo Heyee Fine Chemical Co., Ltd. was founded in December 2010 and is located in the Hongyuan Chemical Industrial Park, Gaoqing County, Zibo, Shandong. The company focuses on R&D, production and sales of Fischer-Tropsch wax (F-T wax), polyethylene wax (PE wax), oxidized wax and other fine-chemical products, widely used in PVC stabilizers, printing inks & coatings, hot-melt adhesives and textile auxiliaries.

Founded in December 2010, Zibo Heyee Fine Chemical Co., Ltd. is located in the Hongyuan Chemical Industrial Park, Gaoqing County, Zibo, Shandong. The company specializes in R&D, production and sales of F-T wax, PE wax, oxidized wax and other fine chemical products, widely used in PVC stabilizers, inks & coatings, hot melt adhesives, textile auxiliaries and more.

15+

Years of Experience

60k

Tons Annual Capacity

4

Production Lines

3+

Joint Venture Bases

Company Name	Zibo Heyee Fine Chemical Co., Ltd.	Company	Zibo Heyee Fine Chemical Co., Ltd.
Established	Dec. 2010	Established	Dec. 2010
HQ Address	Hongyuan Chemical Industrial Park, Gaoqing, Zibo, Shandong	HQ	Hongyuan Park, Zibo, Shandong
Annual Capacity	60,000 Tons	Capacity	—
Employees	150+	Employees	—
Main Products	F-T / PE / Ox-FT / Ox-PE / Liquid / Sapon. Wax	Products	F-T / PE / Ox-FT / Ox-PE / Liq. / Sap.
Applications	PVC Stabilizers / Inks & Coatings / HMAs / Textile Aux. / Rubber / MB / Leather / Cosmetics	Apps	PVC / Ink / HMA / Textile / Rubber
Website	www.heyeechem.com	Website	—

02 Factory Tour

FACTORY TOUR

Live photos of HeyeeChem's Zibo HQ production base, covering production units, tank farms, plant exterior, finished-goods warehouse and workshops. Real production, visible quality.



Main Entrance



Production & Tanks



Production Unit



Finished Warehouse



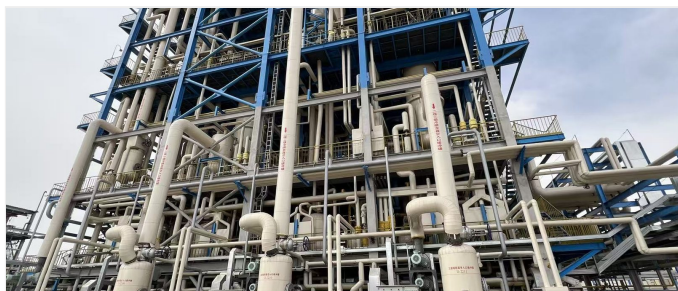
Workshop

03 Production Bases **PRODUCTION BASES**

HeyeeChem operates four large-scale production lines covering F-T wax, PE wax and oxidized wax. Three JV plants with leading domestic energy groups secure stable raw-material supply, with total capacity exceeding 500,000 tons.

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Base	Est.	Capacity	Description
Zibo HQ	2010	60k t/y	4 production lines covering F-T / PE / Oxidized wax
Lu'an Refined Wax	2015	100k t/y	JV plant, F-T wax separation unit
Future Clean Chem.	2019	200k t/y	JV plant, F-T wax separation unit
Ningxia Coal (CHN Energy)	2021	200k t/y	JV plant, F-T wax separation unit



Lu'an Refined Wax



Future Clean Chemicals



Ningxia Coal (CHN Energy)

04 Certifications **CERTIFICATIONS**

HeyeeChem holds internationally recognized certifications covering quality management, occupational health & safety, environmental management, and product safety & compliance.

ISO 9001 Quality Management System Full-process Quality Control	ISO 14001 Environmental Management Green & Eco-compliant Production	ISO 45001 Occupational Health & Safety Workforce Safety & Production
REACH EU Chemicals Registration, Evaluation, Auth. EU Market Access	FDA US FDA Certification Food-contact Compliance	RoHS Restriction of Hazardous Substances E&E Compliance
SGS Int'l 3rd-party Testing Product Testing & Verification	MSDS Material Safety Data Sheet All Products Covered	COA Certificate of Analysis Batch-level Traceability

05 Product Overview

PRODUCT OVERVIEW

HeyeeChem's portfolio spans four chemical categories and six product series, with **29 grades** covering the full low-to-high melting-point spectrum. By chemistry it divides into F-T wax, PE wax, oxidized wax and specialty wax.

New / revised grades in this update: **HY-XE60** · **HY-70A** · **HY-115 / HY-115P / HY-115M** · **HY-1000** · **HY-PE70** · **HY-PE80**; former HY-80 / HY-90 renamed to **HY-W80 / HY-W90**.

Product Series	Grades	M.P. Range	Key Applications	Typical Grades
F-T Wax	11	60–117°C	PVC / Ink / HMA / Rubber / Candle	HY-XE60, HY-70A, HY-70 Series, HY-60+, HY-W80, HY-W90, HY-105, HY-115 Series, HY-N100, HY-102, HY-W104
PE Wax	5	70–116°C	PVC / HMA / MB / Rubber	HY-PE70, HY-PE80, HY-7100D, HY-40, HY-1000
Ox-FT	6	85–110°C	Emulsion / PVC / Coatings / Leather	HY-9128, HY-100-28, HY-104-28, HY-105-32, HY-B39, HY-B52
Ox-PE	4	>90–110°C	Emulsion / PVC / Micronized	HY-OPE-16, HY-OPE-16A, HY-OPE-16B, HY-OPE-16C
Liquid	1	Liquid	PVC Stabilizer / Rubber-Plastic Additive	HY-720
Sapon.	2	90–115°C	Emulsion / Micronized / Coatings	HY-A2, HY-859

Product Matrix

Type	Low	Med	High	Specialty
Non-ox	HY-XE60 HY-70A HY-70 Series HY-60+	HY-W80 HY-W90	HY-105* HY-N100 HY-102 HY-W104 HY-115 Series	HY-7100D HY-40 HY-1000 HY-720
Ox	—	HY-9128 HY-104-28	HY-100-28 HY-105-32 HY-B39 HY-B52	HY-OPE-16 Series HY-A2 HY-859

* HY-105 is a high-M.P. transition grade, often grouped into the medium-M.P. application segment.

06 Application Overview

APPLICATION OVERVIEW

Recommended grades sorted by end-use application to help customers quickly locate the right solution. Red grades are current key or differentiated products.

Application	Recommended Products
PVC Stabilizer	HY-70-2, HY-70-4, HY-W80, HY-W90, HY-105, HY-N100, HY-102, HY-W104, HY-7100D, HY-40, HY-1000, HY-OPE-16 Series, HY-720, HY-B39, HY-B52
Wax Emulsion	HY-9128, HY-100-28, HY-104-28, HY-105-32, HY-OPE-16 Series, HY-A2, HY-859
Hot Melt Adhesive	HY-W80, HY-W90, HY-105, HY-102, HY-W104, HY-7100D, HY-40, HY-1000
Ink / Coatings	HY-70-1, HY-70-2, HY-W80, HY-W90, HY-102, HY-859
MB / Micronized	HY-W104, HY-40, HY-1000 , HY-OPE-16 Series, HY-859
Rubber / Leather	HY-60+, HY-70-1, HY-70-3, HY-70A, HY-7100D, HY-PE70, HY-PE80, HY-9128
Candle / Molded Wax	HY-XE60
Ceramic Substrate Wax	HY-70A

07 F-T Wax — Low M.P. Series F-T WAX • LOW M.P.

Suitable for candles / molded wax, rubber protective wax, PVC processing, cosmetics and specialty uses. Supplied as pellets and microbeads. M.P. 60–78°C.

Quotation & Packaging: **FOB Qingdao, USD** • 25kg/bag or 1t/bale • Values are typical; batch COA governs.

HY-XE60

White Pellets

Candle • Molded Wax

Low-M.P. F-T wax, white color, low odor and narrow molecular-weight distribution, suitable for molded wax and candles where M.P. and appearance matter.

60–65°C

Cong. Pt. D938

65–70°C

Drop M.P. D87

Molded Wax

Candle

Low M.P.

HY-70A

White Pellets/Beads

Ceramic Substrate Wax

Low M.P. with relatively high penetration, good flexibility and compatibility, low bleed-out, suitable for ceramic substrate wax, rubber protection and various low-M.P. formulations.

68–75°C

M.P. D87

67–70°C

Cong. Pt. D938

15–20

25°C Penetration D1321

<3%

Oil D721

Low M.P.

Ceramic Substrate

Rubber Protection

HY-70 Series

Pellets/Beads

Core Grade

HeyeeChem's core low-M.P. F-T wax, offered as HY-70-1 / -2 / -3 / -4 in multiple particle sizes and forms, congealing point 72–78°C, balancing lubrication and dispersion.

72–78°C

Cong. Pt. D938

75–83°C

Drop M.P. D87

8–15

25°C Penetration D1321

Rubber Protection

Ink

PVC

HY-60+

White Pellets

High Hardness

F-T wax with oil content below 1% and high hardness, M.P. 80–90°C, low bleed-out and good heat resistance ("60" is HeyeeChem's series code; actual M.P. is 80–90°C).

80–90°C

M.P. D87

75–85°C

D938

<15

25°C Penetration D1321

<1%

Oil D721

Low M.P.

Rubber Protection

Cosmetics

08 F-T Wax — Med./High/Std M.P.

F-T WAX · MED./HIGH M.P. & STD

Widely used in inks, hot-melt adhesives, PVC processing and stabilizers; the high-M.P. series has congealing point $\geq 99^{\circ}\text{C}$ and very low penetration (≤ 2), ideal for PVC heat stabilizers, high-end HMAs and micronized wax.

Quotation & Packaging: **FOB Qingdao, USD** · 25kg/bag or 1t/bale · Values are typical; batch COA governs.

Medium M.P. Series Medium M.P. (78–95°C)

HY-W80

White Beads

C80 Equivalent

Medium-M.P. bead-form F-T wax, drop M.P. $\sim 88^{\circ}\text{C}$, moderate hardness and low bleed-out, suitable for ink, HMA and PVC processing lubrication & dispersion.

78–86°C

Cong. Pt. D938

$\sim 88^{\circ}\text{C}$

Drop M.P. D87

<9

25°C Penetration D1321

Ink

HMA

PVC

HY-W90

White Beads

Heat & Wear Resistant

Bead-form F-T wax with M.P. above 90°C , penetration below 5, good thermal stability and wear resistance, suitable for inks, HMAs and PVC stabilizer systems.

87–95°C

Cong. Pt. D938

$>90^{\circ}\text{C}$

Drop M.P. D87

<5

25°C Penetration D1321

Ink

HMA

PVC Stabilizer

HY-105

White Pellets/Beads

High-M.P. Transition

High-M.P. F-T wax, drop M.P. above 105°C , high heat resistance and low volatiles, suitable for PVC stabilizers, HMAs and similar systems.

$>95^{\circ}\text{C}$

Cong. Pt. D938

$>105^{\circ}\text{C}$

Drop M.P. D87

PVC Stabilizer

HMA

High M.P. Series High M.P. ($\geq 99^{\circ}\text{C}$)

HY-N100

White Powder

High Hardness

Powder-form F-T wax with high hardness and low penetration (<2), drop M.P. above 110°C , designed for PVC heat stabilizers and high-heat formulations.

 $\geq 99^{\circ}\text{C}$

Cong. Pt. D938

 $>110^{\circ}\text{C}$

Drop M.P. D87

 <2
 25°C Penetration D1321

PVC Heat Stabilizer

High-End

HY-102

White Powder

High-M.P. powder-form F-T wax, penetration below 2 and excellent thermal stability, widely used in HMAs, coatings and PVC processing.

 $99-103^{\circ}\text{C}$

Cong. Pt. D938

 $>110^{\circ}\text{C}$

Drop M.P. D87

 <2
 25°C Penetration D1321

HMA

Coatings

PVC

HY-W104

White Powder

Sasol C105 Equivalent

HeyeeChem's highest-M.P. F-T wax (drop M.P. $\geq 117^{\circ}\text{C}$, penetration ≤ 1), low bleed-out and high heat resistance, suitable for high-end micronized wax, HMAs and PVC.

 $102-108^{\circ}\text{C}$

Cong. Pt. D938

 $\geq 117^{\circ}\text{C}$

Drop M.P. D87

 ≤ 1
 25°C Penetration D1321

High-End

Micronized Wax

HMA

Standard Series Standard Series

HY-115 / 115P / 115M

White Powder/Micronized

General Purpose

General-purpose high-M.P. F-T wax, drop M.P. above 110°C , penetration below 3. HY-115 is standard powder; HY-115P / HY-115M are micronized grades of different particle sizes.

 $99-103^{\circ}\text{C}$

Cong. Pt. D938

 $>110^{\circ}\text{C}$

Drop M.P. D87

 <3
 25°C Penetration D1321

General Purpose

PVC

Coatings

09 Polyethylene Wax POLYETHYLENE WAX

Low-molecular-weight polyethylene wax (PE Wax) combining external lubrication and dispersion, with good water and chemical resistance. Suitable for PVC profiles & pipes, masterbatches, hot-melt adhesives, rubber and coatings.

Quotation & Packaging: **FOB Qingdao, USD** · 25kg/bag or 1t/bale · Values are typical; batch COA governs.

HY-PE70

White Pellets

New Grade

High-purity, well-lubricating low-M.P. PE wax (M.P. 70–80°C), water- and chemical-resistant, zero mechanical impurities and water content, suitable for rubber, plastics and coatings.

70–80°C

M.P. D87

65–75°C

Cong. Pt. D938

10–20

25°C Penetration D1321

<1%

D721

Rubber

Plastics

Coatings

HY-PE80

White Pellets

New Grade

PE wax with oil content below 0.5% and higher hardness (M.P. 80–90°C), excellent lubricity and chemical resistance, suitable for rubber, plastics and coating processing.

80–90°C

M.P. D87

75–85°C

Cong. Pt. D938

5–10

25°C Penetration D1321

<0.5%

D721

Rubber

Plastics

Coatings

HY-7100D

White Pellets

General Purpose

General-purpose PE wax, drop M.P. $\geq 100^\circ\text{C}$, combining good lubrication and dispersion, suitable for PVC processing, rubber and HMA systems.

 $\geq 100^\circ\text{C}$

Drop M.P. D87

 $\geq 95^\circ\text{C}$

Cong. Pt. D938

PVC Processing

Rubber

HMA

HY-40

White Beads

High Softening Pt.

High-softening-point PE wax (softening point $\geq 116^\circ\text{C}$), 149°C melt viscosity 20–40 cP, penetration below 2, combining external lubrication and dispersion, suitable for PVC, HMAs and masterbatches.

 $\geq 116^\circ\text{C}$

Soft. E28

 $>106^\circ\text{C}$

(DSC)

20–40 cP

149°C Viscosity Brook.

<2

25°C Penetration D1321

PVC

HMA

MB

HY-1000

White Beads

Mitsui Hi-WAX 100P Equivalent

Low-M.W. PE wax ($M_n \approx 1000$) made via oligomer precision-cut route, high whiteness, high hardness and low branching, suitable for micronized wax, HMAs, masterbatch dispersion and PVC external lubrication.

 $\geq 110^\circ\text{C}$

Drop M.P. D87

 $\geq 100^\circ\text{C}$

D938

1.1

25°C Penetration D1321

 >10 cP

149°C Viscosity Brook.

Micronized Wax

HMA

MB Dispersion

PVC External Lubrication

10 Oxidized F-T Wax OXIDIZED F-T WAX

Oxidized wax introduces polar groups (carboxyl) onto the molecular chain, with acid value 9–35 mgKOH/g, and can be neutralized / saponified into aqueous wax emulsions. Suitable for water-based coatings, inks, leather feel agents and PVC lubrication.

Quotation & Packaging: **FOB Qingdao, USD** · 25kg/bag or 1t/bale · Values are typical; batch COA governs.

Oxidized F-T Wax

HY-9128

Off-white Coarse Powder
High Acid Value

Coarse-powder high-acid-value oxidized F-T wax with good emulsifying property and smooth film feel, suitable for leather feel agents, coatings and ink water-based wax emulsions.

~86°C

Cong. Pt. D938

~102°C

Drop M.P. D87

27–30

Acid mgKOH/g

Emulsion
Leather
Coatings

HY-100-28

Off-white Beads

High-M.P. oxidized F-T wax, acid value 27–30 mgKOH/g, balancing emulsion stability and heat resistance, suitable for PVC processing and high-heat-resistant aqueous emulsion systems.

95–100°C

Cong. Pt. D938

100–105°C

Drop M.P. D87

27–30

Acid mgKOH/g

Wax Emulsion
PVC

HY-104-28

Off-white Beads

Medium-M.P. oxidized F-T wax, acid value 27–30 mgKOH/g, easily neutralized / saponified into aqueous wax emulsions, suitable for PVC processing lubrication and aqueous systems.

85–93°C

Cong. Pt. D938

95–102°C

Drop M.P. D87

27–30

Acid mgKOH/g

Wax Emulsion
PVC

HY-105-32

Off-white Beads
Highest Acid Value

HeyeeChem's highest-acid-value oxidized F-T wax (30–35 mgKOH/g), strong emulsifying power and fine particle size, suitable for high-end aqueous wax emulsions and dedicated PVC systems.

≥100°C

Cong. Pt. D938

≥105°C

Drop M.P. D87

30–35

Acid mgKOH/g

Emulsion
PVC
High-End

HY-B39

Coarse Powder

Medium-acid-value oxidized F-T wax, drop M.P. above 110°C, moderate polarity and good PVC compatibility, suitable for PVC processing lubrication and compound wax formulations.

≥96°C

Cong. Pt. D938

>110°C

Drop M.P. D87

12–18

Acid mgKOH/g

PVC
Lubricant

HY-B52

Off-white Powder

A grade in the oxidized F-T wax series, suitable for PVC processing and lubrication. For specific acid value, M.P. and other indicators, request the corresponding batch TDS and COA from sales.

Inquire

Acid mgKOH/g

PVC Processing
Lubrication

11 Oxidized PE Wax OXIDIZED PE WAX

Oxidized polyethylene wax (OPE) introduces carboxyl onto the PE backbone, combining lubricity and polarity, acid value 9–18 mgKOH/g, easily emulsified into aqueous wax emulsions, suitable for PVC processing lubrication, release and high-end aqueous systems.

Quotation & Packaging: **FOB Qingdao, USD** · 25kg/bag or 1t/bale · Values are typical; batch COA governs.

Oxidized PE Wax (OPE)

HY-OPE-16

Powder/Beads

Medium Acid Lubrication

Medium-acid-value oxidized PE wax (14–18 mgKOH/g) with excellent lubricity and dispersion, suitable for PVC processing, wax emulsions and lubrication / release.

102–108°C

Drop M.P. D87

94–98°C

Cong. Pt. D938

14–18

Acid mgKOH/g

200–300 cP

Viscosity Brook.

PVC Processing

Wax Emulsion

Lubrication & Release

HY-OPE-16A

Beads

General Emulsification

General-purpose oxidized PE wax in bead form with excellent water and chemical resistance; after emulsification suitable for PVC processing lubrication and aqueous wax emulsions.

>100°C

Drop M.P. D87

>90°C

Cong. Pt. D938

>12

Acid mgKOH/g

>160 cP

Viscosity @140°C

PVC

Wax Emulsion

Chem. Resist.

HY-OPE-16B

Beads

High M.P. High Viscosity

High-M.P., high-viscosity oxidized PE wax with high purity and good lubricity, suitable for high-end PVC formulations and high-heat-resistant wax emulsions.

≥110°C

Drop M.P. D87

≥98°C

Cong. Pt. D938

12–16

Acid mgKOH/g

280–400 cP

Viscosity Brook.

PVC

Wax Emulsion

High-End

HY-OPE-16C

Beads

Low Acid Emulsification

Low-acid-value oxidized PE wax with moderate viscosity and good emulsifying property, suitable for PVC internal/external lubrication, release and aqueous wax emulsion systems.

≥100°C

Drop M.P. D87

>90°C

Cong. Pt. D938

>9

Acid mgKOH/g

150–250 cP

Viscosity Brook.

PVC

Wax Emulsion

Release

12 Liquid & Saponified Wax

LIQUID / SAPONIFIED WAX

Specialty wax series meeting liquid processing and high-end emulsification needs respectively.

Quotation & Packaging: **FOB Qingdao, USD** · 25kg/bag or 1t/bale · Values are typical; batch COA governs.

Liquid Wax

HY-720

Liquid at RT

Synthetic wax liquid at room temperature, congealing point below 25°C, open-cup flash point above 300°C, high purity and good lubricity, easy to pump and meter, suitable for PVC stabilizers and rubber-plastic processing aid systems.

Liquid

Form

<25°C

Cong. Pt. D938

>20 cP

100°C Viscosity Brook.

>300°C

Flash Point (COC) D92

PVC Stabilizer

Rubber-Plastic Additive

Easy Pumping

Saponified Wax

HY-A2

Pale Yellow Coarse Powder

Saponified modified synthetic wax with both acid and saponification values, better emulsifying property than ordinary oxidized wax, balanced film feel and gloss, suitable for aqueous emulsions and PVC processing.

>90°C

Cong. Pt. D938

~107°C

Drop M.P. D87

9-13

Acid mgKOH/g

27-37

Sap. mgKOH/g

Emulsion

PVC

HY-859

Off-white Pellets

High-M.P. saponified wax with low acid value and moderate saponification value, good emulsion stability and fine particle size, suitable for micronized wax, water-based ink coatings and aqueous emulsions.

100-105°C

Cong. Pt. D938

108-115°C

Drop M.P. D87

3-8

Acid mgKOH/g

14-28

Sap. mgKOH/g

Micronized Wax

Water-based Ink

Emulsion

13 Contact Us

CONTACT US

Looking Forward to Working with You

Zibo Heyee Fine Chemical Co., Ltd.

COMPANY

Zibo Heyee Fine Chemical Co., Ltd.

Zibo Heyee Fine Chemical Co., Ltd.

OFFICE TEL

+86 533 699 2006

Zibo HQ Landline

MOBILE / WhatsApp

+86 159 4288 5699

Brian Wang · Sales Lead

EMAIL

brianwang@heyeechem.com

Quotes / Tech Docs

ADDRESS

**Hongyuan Chemical Industrial Park,
Gaoqing, Zibo, Shandong**

Hongyuan Chemical Park, Gaoqing, Zibo

WEBSITE / QUOTE

www.heyeechem.com

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