

XINY[®]

**THE LEADING
BRAND OF
HAIR DYE
INDUSTRY**



XINYWAX OXY SERIES

The brand name you can rely on....



Xinyu has 25 years of experience in dye manufacturing. We supply to hair dye product manufacturers over the world, and our products are regarded to have high quality.

We recently open our up-to-date facility to conduct formulation experiments, to tackle technical issues, and to serve the customer requests,. The new R&D building is hosting our synthetic chemists, formulation scientists, and QC analysis experts, not to mention that we have added a salon to this new center to study the performance of our formulas on life models.

In addition to our technical strength, we also have a friendly and always-at-your-service sales/marketing team, and a department of global agencies to address your business needs.

The company also has established research programs with local universities in order to create new hair coloring technologies. These programs will create the next generation hair colorants and to bring benefits to our customers.

The foundation – the cream

Cream hair colorant is the most popular hair coloring products over the world. It is believed to be the mildest way to color hair. Xinyu has introduced XinyWax' s, which are custom blends for cream colorants, with the objectives that they give good color performance on hair, are convenient for production use, and can be adjusted according to the concept of the final products.

XinyWax Series

- gives good color deposition,
- dyes and conditions the hair simultaneously,
- can be customized,
- is versatile,
- is user-friendly,
- is affordable

XinyWaxes are surfactant blends engineered by choosing ingredients which are mild to skin and hair. They are plant derived materials and some are from natural sources. They are all halal compliant.

Xinyu brand	Ingredients (INCI)	Function	Remarks
XinyWax Oxy-CCW	Fatty alcohols	Building blocks of the cream	Natural plant ingredients; mild to skin & hair
	Fatty acids	Building blocks of the cream	Natural plant ingredients; mild to skin & hair
	Ethoxylated fatty alcohols	Emulsifiers	Derived from plants; mild to skin & hair
	Water	Interconnect agent	

Xinyu brand	Ingredients (INCI)	Function	Remarks
XinyWax Oxy-HN	Fatty alcohols	Building blocks of the cream	Natural plant ingredients; mild to skin & hair
	Ethoxylated fatty alcohols	Emulsifiers	Derived from plants; mild to skin & hair
XinyWax Oxy-CCS	Fatty alcohols	Building blocks of the cream	Natural plant ingredients; mild to skin & hair
	Ethoxylated fatty alcohols	Emulsifiers	Derived from plants; mild to skin & hair

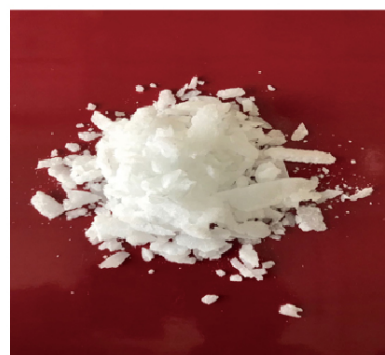
Specification XinyWax Oxy-CCW

ITEMS OF TESTING	SPECIFICATIONS
Appearance	White waxy solid
Flow point(°C)	58-64
pH value	5.0-8.0
Fe (ppm)	≤ 50



XinyWax Oxy-HN

ITEMS OF TESTING	SPECIFICATIONS
Appearance	White Waxy Solid
Flow point(°C)	47-54
pH value	5.0-8.0
Fe (ppm)	≤ 50



XinyWax Oxy-CCS

ITEMS OF TESTING	SPECIFICATIONS
Appearance	White waxy solid
Flow point(°C)	45-52
pH value	5.0-8.0
Fe (ppm)	≤ 50



PERMANENT COLOR CREAM FORMULA

A suggested formula of permanent or demi-permanent color cream can be readily prepared according to the method described below. The formula can be customized to reach the desirable viscosity by employing different amount of the wax.

Phase	INCI name	%
A	Water, D.I.	q.s.
	Propylene glycol	5
B	EDTA.2Na	0.2
	Sodium isoascorbate	0.2
	Sodium sulfite	0.4
	XinyColor dyes	q.s.
C	XinyWax Oxy-CCW	15.0 – 25.0
D	Ammonia solution (27%) or Monoethanolamine	6.0 – 10.0
E	Fragrance	q.s.

PREPARATION –

- Phase A is combined and bring to 80-85°C.
- Phase B is then added according to the sequence listed.
- After all solids are dissolved, introduce Phase C in suitable portions with constant stirring.
- Keeping the agitation until all wax forms a homogenous phase with the aqueous solution; maintain temperature between 80-85°C for another 15-20 minutes.
- Cool the batch to < 40°C and add Phase D.
- Continue to cool the batch to < 35°C; add Phase E, mix till uniform, and tube.

Viscosity of the cream can be modified easily by administrating the quantity of XinyWax Oxy-CCW in the formula. The following table gives guidance to the amount of Oxy-CCW recommended for desired viscosities of the finished cream with no XinyColor intermediates. It should be noted that the viscosity of the cream may come out lower, depending on the intermediates used in the formula. This can be easily remedied by slightly increasing the % of XinyWax Oxy-CCW.

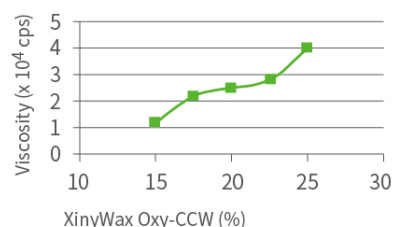
Chart A: Viscosity of cream containing different % of XinyWax Oxy-CCW

% of XinyWax Oxy-CCW	Viscosity (cps)*
15	1.2×10^4
20	2.5×10^4
25	4.0×10^4

*Measured by Brookfield Viscometer Model DV2T, TD spindle, 20 rpm

Chart B: Plot of viscosity of cream vs quantity of XinyWax Oxy-CCW

Viscosity vs XinyWax Oxy-CCW



DEVELOPER FORMULA –

Phase	INCI name	%
A	Aqua	q.s.
	EDTA.2Na	0.1
	Sodium lauryl sulfate	0.08 – 0.30
B	XinyWax Oxy-HN	1.80 – 8.00
C	Aqua	20
	Sodium stannate trihydrate	0.01
D	Hydrogen peroxide (35%)	17.14
E	Phosphoric acid	q.s.

PREPARATION –

- Heat phase A to 75 – 80°C with agitation.
- Add solid Phase B directly or pre-melt Phase B before adding to the hot Phase A.
- Maintain temperature and agitation for an additional 15 min. Allow temperature to decrease to 45°C.
- Phase C is prepared by dissolving sodium stannate trihydrate in water and is then added to the mixture above.
- Continue to add Phase D when the temperature is <35°C.
- Adjust pH of the final mixture to 3.5 – 4.0 with Phosphoric acid.



(It is also possible to prepare cream developer of different viscosities by engaging different quantity of XinyWax Oxy-HN. This can be achieved by using 0.08% of sodium lauryl sulfate in the formula at low XinyWax Oxy-HN concentration, and 0.3% of the sulfate at high XinyWax Oxy-HN percent.)

Disclaimer – This information is presented by Jiangxu Xinyu Bio-Tech Co. in good faith. Xinyu believes that the information provided at this time is correct. However, as numerous factors can affect results, no warranty as to merchantability, result accuracy, fitness for certain particular uses, performance or safety is given, nor is freedom and any warranty from patent infringement to be inferred. Recommendations for use of the products are based on current knowledge. No guarantee is made by Xinyu regarding the validity of the recommendations or the results described in this booklet. We strongly suggest that users conduct proper tests to determine the product suitability for their own purpose prior to use.