



About US

Wanhua Chemical Group Co., LTD., a globally operated company of new chemical materials. We provide customers with more competitive products and solutions by relying on continuous innovation of core technology, industrial equipment and efficient operation mode.

As the wholly-owned subsidiary of Wanhua Chemical Group, Wanhua Chemical (Beijing) Co., Ltd. is a main supplier of modified isocyanate and formulated polyol products, serving hundreds of companies in Asia, North America, South America, Europe and other areas of the world. With independent intellectual property rights,

our polyurethane product solutions include flexible foam, semi-rigid foam, PU composite materials and adhesives, which are widely applied in automotive, rail transit, home life, textile and printing, packaging and transportation, building protection and other industries.

With sustainable technology development and innovation, Wanhua Chemical (Beijing) Co., Ltd. is committed to creating a better life for human and becoming a leading chemical new material company with global distribution and competitiveness.

WANCOL™ Polyurethanes

WANCOL™ series polyurethanes are generally used in solvent based printing inks for flexible packaging, which are divided into Non film-forming and Film-forming polyurethanes. The Non film-forming polyurethanes are mainly used as plasticizers in nitrocellulose based printing inks. The film-forming polyurethanes are mainly used as elastomeric resins in gravure or flexography printing inks. WANCOL™ series polyurethanes can provide great color developing performance, re-soluble property and good adhesion in a variety of films for printing inks.



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WANHUA CHEMICAL
GROUP CO., LTD.

en.whchem.com

WANCOL™
Polyurethanes for Printing Inks



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Products Disclaimer

The information provided here is for reference only, and the specification will be provided in the sales contract. It is the user's responsibility to test the material and its suitability for the processing. It is out of company's control of various factors of the processing and applications of our product, and we can not take any responsibility for another party's action, nor will we be responsible for any indirect damages while using our products. The user is welcome to contact our customer service center with questions on our products.



For more information

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Non Film-forming Polyurethanes

Non Film-forming Polyurethanes are normally used as plasticizers in combination with Nitrocellulose in gravure or flexography inks.

- Tin free.
 - Extensive range of plasticizing property.
 - Good adhesion to a variety of plastic films.
- Good compatibility with Nitrocellulose and ketone resin.
 - Diluted with alcohols or esters solvent.

Product	Solid %	Viscosity mPa·s, 25°C	Solvents	Characteristics
WANCOL™ 907	70±2	900-1300	Ethyl acetate/ Isopropanol	Plasticizing polyurethane with high-toughness. High gloss. Good adhesion to a variety of films. Excellent resistance to oil and grease.
WANCOL™ 908H	75±2	800-1300	Ethyl acetate/ Isopropanol	Plasticizing polyurethane with medium-toughness. Good adhesion to a variety of films.
WANCOL™ 908S	75±2	1300-1800	Ethyl acetate/ Ethanol	Plasticizing polyurethane with softness. Excellent plasticizing property.

Alcohol Soluble Film-forming Polyurethanes

Alcohol Soluble Film-forming Polyurethanes are normally used in combination with Nitrocellulose in gravure or flexography inks for lamination, which can be diluted with alcohols.

- Tin free.
 - Good flexibility.
 - Good adhesion to a variety of plastic films.
- Good compatibility with Nitrocellulose and ketone resin.
 - Heat resistance.

Product	Solid %	Viscosity mPa·s, 25°C	Solvents	Characteristics
WANCOL™ 912	55±2	6000-8000	Ethyl acetate/ Ethanol	Semi-aliphatic polyurethane with high viscosity. Great flexible property. Good adhesion to variety of films.
WANCOL™ 914	57±2	4000-5000	Ethyl acetate/ Ethanol	Semi-aliphatic polyurethane with high solid. Great flexible property. Good color development performance.
WANCOL™ 916	55±2	1000-1500	Ethyl acetate/ Ethanol	Aliphatic polyurethane with low viscosity. Good color development performance. Great blocking resistance property.



Ester Soluble Film-forming Polyurethanes

Ester Soluble Film-forming Polyurethanes are normally used in combination with vinyl resins in gravure inks for lamination, which can be diluted with ester solvent.

- Tin free.
 - Good flexibility.
 - Good adhesion to a variety of plastic films.
- Good compatibility with vinyl resin.
 - Heat resistance.

Product	Solid %	Viscosity mPa·s, 25° C	Characteristics
WANCOL™ 270	30±2	600-1000	Generally used for white & color inks. Good adhesion to variety of films. Great bond strength.
WANCOL™ 279	30±2	400-1300	Generally used for white & color inks. Balanced performance for printing inks.
WANCOL™ 931	30±2	1000-1400	Especially used in white inks for lamination. Good compatibility with solvent-free adhesive.
WANCOL™ 941	35±2	900-1300	Generally used for white & color inks. Excellent re-soluble property, blocking resistance and color developing performance.