

Technical Data Sheet

Revision Date: 2020-09-18

NO. PCS_0001

Name: WANNATE™ HDI

Version: 5.0

Application

WANNATE™ HDI (Hexamethylene Diisocyanate, 1,6-diisocyanatohexane) is a liquid aliphatic diisocyanate. It is a colorless or pale yellow liquid with low viscosity.

Density at 20 °C ~ 1.05 g/cm³

Viscosity at 25 °C ~ 3 mPa · s

WANNATE™ HDI is raw material for polyurethanes. Products based on WANNATE™ HDI is mainly used in PU varnish, top-grade coatings, car refinishing paint, plastic coating, top-grade wood paint, industrial coating, anti-corrosive coating, elastomers, adhesives and textile finishing agent.

Polyurethane coatings based on WANNATE™ HDI have a high degree of oil resistance coupled with good wear-resisting. It is also lightfast and has the property of powdering resistance, color retention and weathering resistance. In addition, WANNATE™ HDI also can be used in coating curing agent, high polymer adhesive, low temperature adhesive for printing paste, collar copolymer coating, and immobilized enzyme adhesive.

Specification

Properties	Unit	Specification
Appearance		Clear and transparent liquid, no suspended impurity

Purity	%	≥ 99.50
NCO Content	%	≥ 49.70
Chromatic Number	APHA	≤ 30
Hydrolysable Chlorides	mg/kg	≤ 100

Package(s)

200 kg Metal drum

Other packaging according to customer needs

Storage / Solubility

Store in cool, dry and well-ventilated warehouse. Keep away from fire and heat sources. Keep the container sealed and store separately from oxidants, acids, alkalis, alcohols and edible chemicals, and avoid mixed storage.

WANNATE™ HDI is a clear and transparent liquid. Due to its active chemical properties, water or moisture in the air reacts with the product and generate pressure. If partially filled containers are stored, it is advisable to blanket the liquid surface with dry nitrogen before sealing.

Shelf Life

WANNATE™ HDI is sensitive to moisture and must be stored in tightly sealed container. It can be stored for at least 9 months at temperatures between 0 and 30 °C.

The information provided here is for reference only. The specification will be provided in the quality certificate or in the contract. It is the user's responsibility to test the material and its suitability for a process. We have no control over what another party does with the material and we cannot 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 and technical service center with questions on our products.