

Technical Data Sheet

Revision Date: 2023-10-10

NO. PCS_0098

Name: WANNATE™ IT-100

Version: 1.0

Application

WANNATE™ IT-100 is a cycloaliphatic polyisocyanate based on isophorone diisocyanate. WANNATE™ IT-100 is a solvent-free material, supplied as pellets. This cycloaliphatic polyisocyanate is light-stable and non-yellowing. It has especially been developed as an isocyanate crosslinking agent for 2K PUR coatings or adhesives. It is also supplied as 70 pbw. solutions in various solvents.

WANNATE™ IT-100 can also be used for the manufacture of blocked polyisocyanates or PUR resins like waterborne polyurethane dispersions (PUD).

WANNATE™ IT-100 is soluble in all types of conventional non-protic solvents (ketones, esters, aromatics, chlorinated hydrocarbons and white spirit). Solvents containing compounds able to react with isocyanates such as alcohols, amines and water must be avoided. The water content of any solvent used should be less than 0.05 %.

Specification

Properties	Unit	Specification
NCO Content	%	16.30 ~ 18.30
IPDI Content	%	<0.50

Reference data

Properties	Unit	Specification
Melting point	°C	~ 100

Density (20 °C)	g/cm ³	1.15
Bulk density	kg/m ³	600

Package(s)

125 kg Metal drum

Other packaging available according to customer needs

Precautions for storage/use

The vessel to be used for the dissolving process should be made of stainless steel or enamel. A closed system should be used, ventilated with nitrogen. Equipment for heating and cooling is required. The solvent is charged, preheated to approx. 50 °C and approx. 30% of the solid IT-100 is added under stirring. The mixture is heated to approx. 80 °C within 30 minutes and the remainder of the IT-100 is added in two or three portions under stirring. Alternatively, if no stirring equipment is available, the solvent/solution can be circulated by pumping, the liquid entering the reactor at its base.

Shelf Life

WANNATE™ IT-100 is sensitive to moisture and must be stored in tightly sealed container. It can be stored for 12 months at temperatures between 0 and 30 °C. The product is sensitive to moisture. Storage at higher temperatures will result in increase of color and viscosity.

For more information about safety and environment, please refer to our MSDS or contact our customer service center.

Version Information:

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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.