

Product Technical Specification

Revised date: 2018-06-22

TDS number: PCS_0005

Product number: WANNATE[®] HT-100

Version: V 5.0

product use

WANNATE[®] HT-100(hexamethylene diisocyanate based polyisocyanate) is an aliphatic polyisocyanate. At room temperature it is a colorless to yellowish transparent liquid.

The product belongs to isocyanurate:

equivalent ~ 193

Density (25°C) ~ 1.16 g/cm³

As a raw material for polyurethane production, WANNATE[®] HT-100 is primarily used as a curing agent component in light-resistant two-component polyurethane coatings, providing the coating with excellent chemical resistance, weather resistance, outstanding light retention properties, and superior mechanical performance. Ideal co-reactives include polyacrylate, polyester polyol, and alkyd resin.

The coating system formulated with WANNATE[®] HT-100 is suitable for self-drying or baking and is used for automotive OEM paint, automotive repair, transportation vehicles, industrial products and plastics coating.

performance index

project	unit	metric
Mass fraction of isocyanate (–NCO)	%	21.70~22.20
Viscosity (25°C)	mPa s	1750 ~3250
tone	(Platinum-cobalt color code)	≤ 40
Mass fraction of HDI monomer	%	≤ 0.2

packing specifications

20 kg metal pail

60 kg metal pail

220 IBC metal pail

barrels

Tank container (ISO TANK)

Custom packaging can be made according to customer requirements

Storage (use) Notes

Store in a cool, dry and well-ventilated warehouse. Keep away from fire and heat sources. Keep the container sealed. It should be stored separately from oxidizers, acids, alkalis, alcohols and edible chemicals. Do not store together.

The WANNATE[®] HT-100 can be diluted with ester, ketone, and aromatic hydrocarbon solvents such as ethyl acetate, butyl acetate, acetone, methyl ethyl ketone, methyl isobutyl ketone, cyclohexanone, toluene, and xylene. While it generally demonstrates good miscibility with these solvents, the storage stability of the resulting solution must be tested. Ammonia-grade solvents (containing less than 0.05% water content and lacking active groups like hydroxyl or amino) should be used. Aliphatic hydrocarbons are not suitable as solvents.

WANNATE[®] HT-100 should not be diluted to a solid content of less than 40%. The solution with low base content may become cloudy and precipitate after long-term storage.

compatibility

WANNATE[®] HT-100 can generally be used with aliphatic polyisocyanates, aromatic polyisocyanates, polyether polyols, and polyacrylates, but the compatibility of the solution should be tested.

quality guarantee period

The product is sensitive to moisture. Under the condition of 0~30°C cool and dry, the shelf life of the product stored in the original closed container is 15 months.

For information about safety and environmental protection, please refer to the safety data sheet of our products or contact our customer service center.

Version Information

First release: June 6, 2013 Version: V 1.0

First revised date: February 19, 2017 Version number: V 2.0 Reason for revision: Contact information changed

Second revision date: June 9, 2017 Version number: V 3.0 Reason for revision: Company logo change

Third revision date: October 1, 2017 Version number: V 4.0 Reason for revision: Change of shelf life

Fourth revision date: June 22, 2018 Version number: V 5.0 Reason for revision: Change of shelf life

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