

Tolonate[®] IDT 70 S



Description

- ⇒ Aliphatic polyisocyanate based on Isophorone Diisocyanate trimer (IPDI homopolymer), supplied at 70 % solids in aromatic hydrocarbon.

Suggested Uses

- ⇒ Two-component polyurethane coatings and varnishes, showing an excellent weathering resistance.
- ⇒ Exterior protective coatings for automotive OEM and car repair, general industrial, plastics, wood...etc.

Specifications

Colour	≤ 60 HAZEN (APHA)
Viscosity at 25°C	1830 ± 540 mPa.s
NCO (on delivery form)	12.3 ± 1.0 %
Solids content	70.0 ± 2.0 %
Isophorone diisocyanate monomer (IPDI)	< 0.5 %

The analytical methods are available upon request

Physical Properties

Appearance	Clear liquid
Bulk density at 25°C	1040 kg/m ³ approx.
Weight per US gallon	8.68 lbs approx.
Flash point (closed cup)	45°C approx.
Equivalent weight (on delivery form)	342 g approx.

Solubility

Soluble in esters, ketones, aromatic hydrocarbons. In most cases, esters/aromatic hydrocarbon mixtures are used.

It is recommended to use "urethane grade" solvents for the dilution (with water content below 300 ppm).

Tolonate[®] IDT 70 S

Applications

- ⇒ **TOLONATE[®] IDT 70 S** is typically used as a crosslinker of hydroxylated polymers, especially polyesters and polyacrylic polyols, to prepare two-component polyurethanes coatings and varnishes showing excellent outdoor durability and mechanical properties in conjunction with outstanding resistance to solvents, abrasion and chemicals.
- ⇒ Due to its cycloaliphatic structure, TOLONATE[®] IDT 70 S is usually used in blends with HDI derivatives, such as, for instance, TOLONATE[®] HDB 75 MX, TOLONATE[®] HDT 90 or TOLONATE[®] HDT-LV2. Recommended ratios are usually in the range of 80/20 to 60/40 (HDI derivative / IDT - dry/dry).
- ⇒ Using TOLONATE[®] IDT 70 S in the hardener leads to films with shorter physical drying and higher hardness.

Packaging and transport

Packaging (please contact our sales team for more details)

- ⇒ Deliveries of 800 kg net weight pallets (4 drums of 200 kg net weight).
- ⇒ Other packaging: upon request

Transport

- ⇒ Regulated. For more precise details, please refer to the safety data sheet

Storage conditions and shelf-life

- ⇒ TOLONATE[®] IDT 70 S is sensitive to moisture and should be kept in its original container or in a volume tank under dry nitrogen blanketing, for example.
- ⇒ Appropriate storage for 1 year does not normally affect the product in any way if it is stored in its sealed original drums in proper storage conditions at temperatures below 40°C.

Inflammability and safety instructions

- ⇒ Before handling this product please refer to its safety data sheet

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