

IsoQure[®] TT

TDI Dimer

Chemical name: 1,3-bis(3-isocyanato-4-methylphenyl)-1,3-diazetidin-2,4-dione

CAS Number: 26747-90-0

EINECS Number: 247-953-0

Material Definition

Appearance: White powder

TDI-Monomer: Max. 0,10 %

Melting Point: > 145° C

NCO-content: 22,5 - 24,5 %

Volatile Matter: Max 0.5%

Application

IsoQure[®] TT has the ability to react under different molecular weights: Under mild reaction conditions, i.e. when reacted with aliphatic hydroxyl groups at temperatures < 140°C in the absence of basic catalysts or with primary or secondary amino groups at room temperature, it is primarily bi-functional and has a molecular weight of 348.

Under severe conditions, either reacted at temperatures > 150°C or at lower temperatures with the aid of highly basic catalysts, it still reacts bi-functional but with a molecular weight of 174 (that of monomeric TDI).

Use Cases

Adhesion promoter for rubber to fabric bonding, especially for polyester cord or reinforcing fabric for i.e. conveyor belts.

Adhesion promoter for PVC to fabric bonding, i.e. for the production of light-weight conveyor belts for the food industry or for plastisol-coated fabric.

Vulcanising agent for natural and synthetic rubber, especially for polyurethane rubber like Urepan 600.

Crosslinker for heat-activated polyurethane coatings, sealants, adhesives, and elastomers.

Handling, Storage and Packaging

IsoQure® TT is stable for at least one year when stored in sealed original packing at temperatures below 30°C without exposure to sunlight.

Standard pack size is in 15 kg cardboard boxes.

Notice: Metalink U Trade Name Phase-Out

Please note that we are phasing out the *Metalink U* trade name in favor of the unified *IsoQure TT* moniker. Historically, *Metalink U* applied to material that was manufactured in Switzerland only. Moving forward, the *IsoQure TT* name will apply to this product regardless of origin plant or country, worldwide.

Regulatory Information

EU REACH registered: Yes

Availability

- Americas (United States, Canada, South America)
- APAC (Asia-Pacific)
- ANZ (Australia, New Zealand)
- EU (European Union)
- PRC (People's Republic of China)
- UK (United Kingdom)

Disclaimer / Conditions

Revision: 2023-09-19 / a57e



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and then to continually test the product and its application procedures within the context of its specific use. Use of our products and data requires diligence and care, and is within the sole responsibility of the user. Kautschuk-Group does not accept any liability for damages incurred. Our general [Terms and Conditions \(/info/toc\)](#) apply.

Stated storage and shelf life times are minimum guaranteed values for a period starting on the day of shipment. After this period has expired, the product requires additional quality control testing but may very well still be within specification. For more information, refer to our [Shelf Life Policy \(/info/shelflife\)](#).

For updates on product information, please check this web page regularly:
<https://kautschuk.com/products/elastomer/isoquire-tt>
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