

# T100

Monomeric Toluene Diisocyanate (TDI)

**Product Description:**

T100 is a high 2,4-isomer toluene diisocyanate (TDI) used in prepolymers for elastomers, urethane foam, and coatings applications. As with all polyurethane products, application and field testing are necessary to determine suitability of a particular product combination to the success of the final product.

Typical Properties of T100		Product Specifications	
Appearance	Water white to pale yellow	Color, APHA (max)	25
Specific Gravity @ 25°C	1.22	Turbidity @ 25°C	1
Flash Point, PMCC	127°C	Assay, min	99.5%
Refractive Index @ 25°C	1.566	Hydrolyzable Chlorides	0.010% max
Crystallization Point	13°C	Acidity, Wt.	0.010% max
Boiling Point	251°C	2,4 – Isomer Ratio	98.0% min
NCO Content	48%	2,6 – Isomer Ratio	2.0% max

**Storage and Handling:**

Containers should be kept tightly closed to prevent moisture contamination which can adversely affect processing. Do not reseal container if contamination is suspected. TDI will react with water to form polyureas and liberate CO<sup>2</sup> gas potentially causing containers to expand and possibly rupture. Use of a dry nitrogen blanket for partial drums is recommended. Storage temperatures for T100 should be maintained between 80° and 110°F (27° and 43°C).

Do not breathe vapors, mists, dusts, smoke or gases generated from TDI. Exposure to vapors of TDI can be dangerous. Use of adequate ventilation is extremely important. Wear respiratory protection particularly when working with TDI that is heated, sprayed or used in a confined space.

**Health and Safety Information:**

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling any of the products listed above. Before working with these products, it is your responsibility to read and become familiar with the available information on its hazards, proper use and handling. This is extremely important and cannot be overemphasized. Information is available in several forms, e.g. material safety data sheets and product labels. To obtain this information, contact your ITWC, Inc. representative or ITWC, Inc.'s Safety and Regulatory Affairs Department in Malcom, Iowa.

PO Box 247 ◦ 106 South Main Street ◦ Malcom, Iowa 50157  
 641-528-3000 ◦ Toll Free: 888-489-2462 ◦ Fax: 641-528-5403 ◦ www.itwcinc.com