

# Toluene Diisocyanate (TDI 80/20) in IRAN



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(ISO 9001 : 2015 & AEO T1 Certified Co.)

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URS : UKAS

**Toluene Diisocyanate** : We offer it as Clear Colourless to Yellowish Liquid with Purity 99.7% & above.

**Introduction** : HS Code No. : 29291010      **Odor** : Sharp, Pungent Odor

- **Toluene Diisocyanate** : CAS No. 26471-62-5
- **2,4-Toluene Diisocyanate** : CAS No. 584-84-9
- **2,6-Toluene Diisocyanate** : CAS No. 91-08-7



- TDI (Toluene Diisocyanate) is an Organic Compound, produced from Toluene, followed by Phosgenation.
- It is a mixture of Two, Commercially Important, Isomers, 2,4-TDI (80%) and 2,6-TDI (20%).
- It is used in production of Rigid & Flexible Polyurethane Foams, with High Temp. Stability.
- Also used in making Urethane Paints, Varnishes, Elastomers & Coatings.

**Specification** : Most Stringent Quality controlled Product.

- |                             |               |                  |                |
|-----------------------------|---------------|------------------|----------------|
| • Assay (Purity)            | : 99.90% Min. | • Total Acidity  | : 40 ppm Max.  |
| • Hydrolyzable Chlorine     | : 80 ppm Max. | • Total Chlorine | : 700 ppm Max. |
| • <b>Isomer Content (%)</b> |               | • Colour (APHA)  | : 25 Max.      |
| 2,4- Toluene Diisocyanate   | : 80±1        |                  |                |
| 2,6- Toluene Diisocyanate   | : 20±1        |                  |                |

## Major Applications :

In the manufacturing of Polyurethane Resins being used across a Vast Range of Industries, like :

- **Apparel** : To produce Stretchable, Lightweight Fabrics.
- **Appliances** : For Thermal Insulation in Refrigerators & Freezers etc.
- **Automotive** : For Car Seats, Car Ceiling, Body, Doors, Windows, Bumpers, Spoilers etc.
- **Construction** : Foam-core panels.
- **Composite Wood** : To make Cabinets & other Furniture in Homes.
- **Electronics** : For Sealing, Compressing & Insulating Circuit Boards.
- **Flooring & Furnishings** : To make more Sturdier Floors, (Bedding & Carpet Padding).
- **Marine** : To improve Durability & Sturdiness of Boats.
- **Medical** : Mainly in Equipment's & Accessories  
E.g. : Surgical Drapes, Injection Molded Devices, Wound Dressing etc.
- **Packaging** : PU Packing Foam allows to Secure & Protect Goods throughout Transit period  
(Glassware, Medical Equipment etc.)
- **Paints**

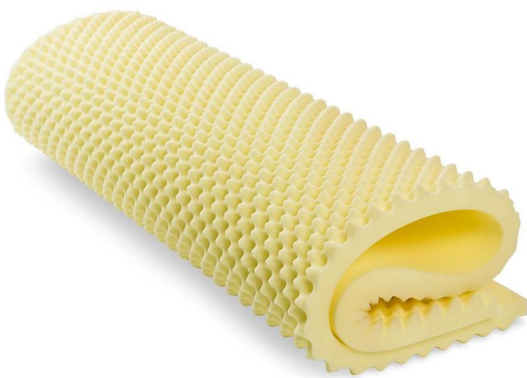
**Packings** : 250 Kgs. Net in new Steel Drums  
: In 20 ft. FCL, 20 MT Palletized



Applications

1) In the Production of Flexible Polyurethane (PU) Foams used in

- Bedding (Mattresses & Pillows & Quilts)
- Furniture Cushion Seats
- Carpet Underlay / Lining
- Automobile Seats



Polyurethane Foam

2) In the Manufacture of C.A.S.E

- Coatings (e.g. : Waterproofing Coating)
- Adhesives
- Sealants &
- Elastomers, used in **Rubber Tires & Tubes for vehicles for Agriculture use & Lawn Mowers**



Non-Marking Polyurethane-Elastomer



Elastomeric Polyurethane Sealant



Waterproof Coating

3) In the Manufacturing of Power Supplies Equipment (Insulation Materials) for the most Demanding & Highly Regulated Industries – including **Medical Sector**

- Ultra Low Leakage
- Medical Grade EMI Filters
- Medical UPS
- Power Bridges & PCB Mounted
- U-Channels & Power Distribution units



Polyurethane (TPU) Medical  
Tubing for Human Umbilical  
Catheter



Knee, Elbow Protective Pads

4) In the Manufacture of Insulation Materials for Consumer Appliance Products

- 3 Phase Wye Filters
- Single Phase Filters
- IEC Filters
- 3 Phase Delta Filters

5) In the Manufacture of Applicators for Humanitarian Products

- Shoes & Shoe Polish
- Shampoos & Wax
- Household Chemicals Cleaning Tools for Pipelines & Tubes
- Audio-video Computer CDs
- Carpets, Briefcases
- Bags & Purses & Diaries
- Protective Pads for Sports & Medical use



6) In Packaging Manufacturing industries for

- Electronic Items
- **Frozen Foods**
- **Medicines**
- Medical Equipment
- Glassware



**Fruit Packaging Net Bag**



**Polyurethane Cooler Box**



**Fruit Packaging Net Bag**

PU Packing Foam allows to Secure & Protect Goods throughout Transit period etc.



**Electronic Packaging Box**



**Electronic Packaging Box**



**Polyurethane Food Packaging Conveyor Belt**



Foam plugs and stoppers are used in the Pharmaceutical industry within plastic or glass containers to protect medication, pharmaceutical or dietary and nutritional supplement tablets too. The foam stoppers protect medication during transit to prevent shaking or breakage of Tablets or Capsules.

7) **Automotive** : For Car Seats, Car Ceiling, Body, Doors, Windows, Bumpers, Spoilers etc.



**PU Foam in Car Seat**



**PU Foam in Car Door**



**PU Foam in Car Bumper**