TECHNICAL DATA SHEET
TOLUENE DIISOCYANATE (TDI)

TEST SPECIFICATION

Items	TDI 80/20 Type I	TDI 80/20 Type II	TDI 100	TDI 65/35	TDI 67/33
Purity (%)	Min. 99.7	Min. 99.5	Min. 99.7	Min. 99.7	Min. 99.7
Isomer Ratio: 2,4-toluene diisocyanate (%)	80±1	80±1	Min. 98	65±2	67.7±0.75
Isomer Ratio: 2,6-toluene diisocyanate (%)	20±1	20±1	Max. 2	35±2	32.3±0.75
Acidity (as HCl, ppm)	Max. 15	80±10	Max. 20	-	Max. 30
Hydrolysable chloride (ppm)	Max. 40	100±20	Max. 50	Max. 100	Max. 100
Total chloride (ppm)	Max. 180	Max. 700	Max. 180	Max. 200	-
Color (APHA)	Max. 15	Max. 15	Max. 20	Max. 20	Max. 20

PHYSICAL PROPERTIES

Molecular Weight: 174.2

Flash Point (°C): 135

Viscosity: 3.10 cps at 25°C · 1.74 cps at 50°C · 0.70 cps at 100°C

Melting Point (°C): TDI 80/20 11.5 ~ 13.5 · TDI 100 21.5 ~ 23.5 · TDI 65/35 4.5 ~ 6.5

Specific Gravity at 25°C: 1.22

Vapor Pressure (mmHg at 25°C): 0.03

Boiling Point (°C @ 760 mmHg): 251

Vapor Density (air=1): 6.0

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