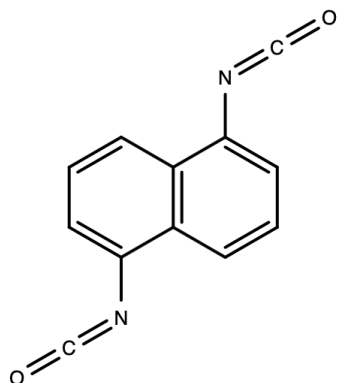


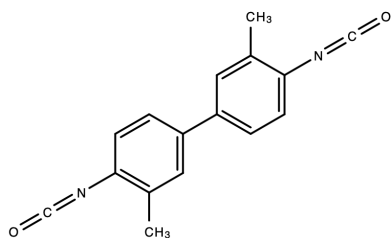
Specialty Isocyanate

HARTDUR 115 (NDI)



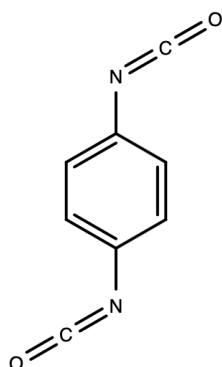
Appearance	White slice crystal
Chemical Name	1,5-Naphthalene diisocyanate
CAS No.	3173-72-6
NCO Content	40%
Melting Point	126.5 ~ 127 °C
Applications	1. Shock absorption and damping components 2. High-quality PU wheels and products

HARTDUR 118 (TODI)



Appearance	White slice crystal
Chemical Name	3,3'-Dimethyl-4,4'-biphenylene diisocyanate
CAS No.	91-97-4
NCO Content	31.8%
Melting Point	69 ~ 71 °C
Applications	1. Oil seals, water seals, piston rings, etc. 2. Bumpers, shock absorbers, etc. 3. TPU anti-slip snow chains

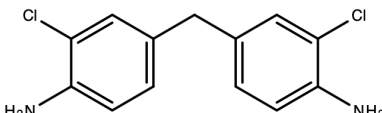
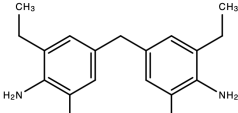
HARTDUR 120 (PPDI)

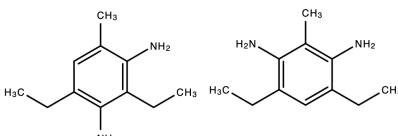
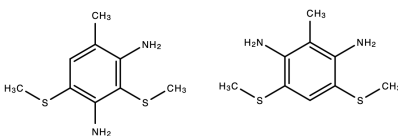


Appearance	White flake crystal
Chemical Name	1,4-Phenylene diisocyanate
CAS No.	104-49-4
NCO Content	52.5%
Melting Point	94 ~ 99 °C
Applications	1. Sealing and Dumping Components 2. High-performance PU/TPU products



Amine Curing Agent

HARTCURE M (MOCA)		HARTCURE MMEA	
			
Chemical Name	4,4'-Methylene bis (2-chloroaniline)	Chemical Name	4,4'-Methylene-bis(2-methyl-6-ethylaniline)
CAS No.	101-14-4	CAS No.	19900-72-2
Appearance	White to light yellow granule	Appearance	Light yellow to white powder
Amine Value	7.4 ~ 7.6 (mmol/g)	Amine Value	390 ~ 408 (mg KOH/g)

HARTCURE 10 (DETA)		HARTCURE 30 (DMTDA)	
			
Chemical Name	Diethylmethylbenzenediamine	Chemical Name	Dimethyl thio-toluene diamine
CAS No.	68479-98-1	CAS No.	106264-79-3
Appearance	Light amber transparent liquid	Appearance	Light yellow liquid
Equivalent Weight	89.14	Equivalent Weight	107

Isocyanate Crosslinker

Product Name	CAS No.	NCO Content	Solid Content	Applications
HARTDUR E333 (RFE)	4151-51-3	7.2 ± 0.2 %	27.00 ± 1.0 % in EAC	Shoes and Chloroprene rubber adhesives
HARTDUR F256 (RF)	4151-51-3	5.4 ± 0.2 %	20.00 ± 1.0 % in DCM	Shoes and CR adhesives
HARTDUR C528 (RC)	Not Available	6.0 ± 0.2 %	27.00 ± 1.0 % in EAC	PU, natural & synthetic rubbers
HARTDUR CFN-2 (RN)	Not Available	5.8 ± 0.2 %	27.00 ± 1.0 % in EAC	PVC, SBR, leather, silk, etc.
HARTDUR RE101 (RE)	2422-91-5	9.3 ± 0.2 %	27.00 ± 1.0 % in EAC	metals with rubber

*EAC : Ethyl acetate

**DCM : Methylene chloride



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