



Isocyanate

DESCRIPTION

SUPRASEC® 5025 is a standard functionality polymeric diphenyl methane diisocyanate (MDI). It is used together with polyols to produce rigid polyurethane foam.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	brownish clear liquid		
Density (25 °C)	1.23	g/cm³	PU/SPG-1
Viscosity (25 °C)	210	mPa.s	PU/VIS-1
NCO value	31	%	PU/IV-1
Iron content	3.5	ppm	PU/FE-1
Hydrolysable chlorine	<= 1500	ppm	PU/HC-1
Acidity	75	ppm	PU/AC-1
Fire point	245	°C	ASTM92D
Flash point	230	°C	FLASH

HANDLING AND STORAGE

Containers of SUPRASEC[®] 5025 should be kept properly sealed and stored indoors in a well-ventilated area under normal factory conditions. Storage at temperatures ranging from 20-30 °C provides a convenient viscosity for handling and optimum shelf life. Storage at low temperature is not recommended because it may lead to some crystallisation; this material must therefore be protected from frost. If under abnormal storage conditions some crystallisation does occur, the material should be melted according to the procedures given in the publication PU 181-15E. Storage at temperatures above 50 °C is not recommended, since this can lead to the formation of insoluble solids and increased viscosity.



Under the recommended storage conditions and if protected from humidity and contaminants, in properly sealed drums, etc., SUPRASEC[®] 5025 has a provisional storage life of 6 months at the customer. In case of storage in bulk containers, please contact our Sales Representative for further details. Detailed information on how to obtain optimum bulk storage conditions, is available in the ISOPA document Guidelines for Safe Loading/Unloading, Transportation & Storage of TDI and MDI.

Reaction with atmospheric moisture, is prevented by storing SUPRASEC® 5025 in carefully sealed containers under a dry air atmosphere. During handling, the product must be protected from water ingress and from atmospheric moisture. Containers should be re-sealed immediately after each sampling. The reaction of isocyanates with water leads to the formation of insoluble ureas and carbon dioxide gas, which can lead to pressure build-up in closed containers. Containers used for SUPRASEC® 5025 must therefore be absolutely dry.

The precautions necessary when handling SUPRASEC[®] 5025, i.e. MDI, and the decontamination procedures recommended to be used in case of spillage, are described fully in the publication PU 193-1E; MDI-based compositions: Hazards and safe-handling procedures.

ENVIRONMENT, HEALTH AND SAFETY

The applicable safety datasheet should be reviewed before handling the Huntsman product. All users of SUPRASEC[®] 5025 should read the publication PU 193-1E; MDI-based compositions: Hazards and safe-handling procedures.

For further information, please contact your nearest sales office: http://www.huntsman.com/PU_customer_service

Warranty: Huntsman Polyurethanes warrants only that its products meet the specifications agreed with the buyer. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. The manufacture of polyurethanes materials and polymeric foams is the subject of granted patents and patent applications; freedom to operate patented processes is not implied by this publication and belief, accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS AWARKANTY, EXPRESS AWARKANTY,