

COSMONATE CG-3401N

-Technical Data Sheet-

1. Characteristics of Product

COSMONATE CG-3401N is a special modified MID product used in the production of noise absorbent foam and the covers of automobile engines and batteries for damping noise generated by automobile engines and tires, and roads. Kept in liquid state at ambient temperature, the product is easy to store and handle at temperatures down to 10°C. This solvent-free product has viscosity of up to 60 cps at 25°C.

2. Product Application



Automobile battery covers



mattresses

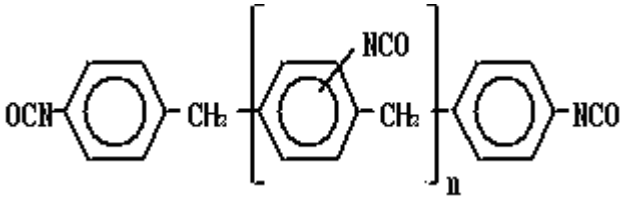


automobile absorbents

COSMONATE CG-3401N is a special modified MDI product used in a wide range of applications including automobile battery covers and absorbent foam. It offers excellent permeability, flow property and formability for complicated injection molding.

COSMONATE CG-3401N

3. Product standards & general properties

Item	evaluation	unit	result
Product specifications			
NCO content	ASTM D 1638	wt%	31.7 ~ 32.7
viscosity (25°C)	ASTM D 1638	cps	MAX.60
specific gravity(25°C)	ASTM D 1638	-	1.18 ~ 1.22
General physical properties			
Apearance			Brown Liquid
Boiling point		°C	200 ~ 208
freezing point		°C	below -5°C
Vapor pressure (25°C)		mmHg	Ignorable Level
Flash point		°C	177 ~ 218
Molecular Weight		g/mol	240 ~ 260
Chemical structure			
 <p>The chemical structure shows a repeating unit of a polyurethane. It consists of three benzene rings. The first and third rings are substituted with an NCO group at the para position. The second ring is enclosed in brackets with a subscript 'n', indicating it is a repeating unit. Each benzene ring is connected to the next by a methylene (-CH₂-) group at the para position.</p>			
Over n=0,1,2,3,4			

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4. Product Packaging

Cosmonate CG-3401N is packed in single 230kg drum or in bulk

5. Safety and Health

Contact with the skin can cause inflammation including a rash, while contact with the eyes can cause severe pain, and visual disturbance may result in the event of excessive exposure. Inhalation of the vapor of MDI can cause bronchial asthma, headaches, or breathing difficulties, and its ingestion can cause irritation and inflammation of the gastrointestinal tract. In cases of contact with the skin, rinse the affected area completely with plenty of water or soapy water. In cases of contact with the eyes, rinse immediately with plenty of water or soapy water for 15 minutes, and seek professional medical help. In cases of MDI vapor inhalation, move the affected individual to a place where there is plenty of fresh air, keep him/her in a warm, stable condition, and perform artificial respiration if needed. In cases of ingestion, allow the affected individual to vomit with their head positioned lower than the hip to prevent suffocation from respiratory tract inhalation, and provide symptomatic treatment. Seek medical help if necessary. In the event of a fire, extinguish with a carbon dioxide fire extinguisher. In the event of a large fire, extinguish with water.

6. Storage and Handling

The optimal storage temperature for CG-3401N is 20~35°C. Caution is needed to prevent moisture from being mixed in the storage container, which should be sealed by dry nitrogen gas if possible. When working with MDI, proper safety equipment should be worn, and a ventilation or gas mask should be used if necessary. After work, wash completely with soapy water. Contaminated work clothes should be washed and cleaned for the next use.