

COSMONATE CG-3000

-Technical Data Sheet-

1. characteristics of product

Cosmonate CG-3000 is a special modified MDI, which is used for making automobile and household seat cushion foams, integrated headrests, and memory foams (health pillows). As it is excellently effective in absorbing the vibration of automobiles, it can increase the comfort of seats. Cosmonate CG-3000 is liquid at room temperature and can be stored and handled easily at a temperature of up to 10°C. In its solvent-free form, it provides a viscosity of up to 80 cps (25°C).

2. product application



automobile SEAT



Memory Foams



furniture foams



HEAD RESTS

Cosmonate CG-3000 is a special modified MDI, which is used for a wide variety of purposes in the automobile and furniture sectors. With good elongation and setting characteristics, it can improve workability. With excellent flowability and moldability, it is advantageous in making automobile seats, health pillows, and integrated automobile headrests that are made using complex molds.

COSMONATE CG-3000

3. Product standards & general properties

Items	evaluation methods	units	results
Product specifications			
NCO content	ASTM D 1638	wt%	28.0 ~ 30.0
Viscosity (25°C)	ASTM D 1638	cps	Max. 150
Specific weight (25°C)	ASTM D 1638	-	1.19 ~ 1.21
General Properties			
Product exterior			light brown liquid
Freezing point		°C	below 10°C
Vapor pressure(25°C)		mmHg	negilgible
Flash point		°C	177 ~ 218
Chemical structure			
<p>Over n=0,1,2,3,4</p> <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 isocyanate group (-NCO) at the para position. The first ring is connected to a methylene group (-CH₂-), which is then connected to a bracketed repeating unit. The repeating unit consists of a benzene ring substituted with an isocyanate group (-NCO) at the para position, connected to a methylene group (-CH₂-). This unit is repeated n times. The repeating unit is then connected to another methylene group (-CH₂-), which is finally connected to the third benzene ring substituted with an isocyanate group (-NCO).</p>			

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4. product packaging

Cosmonate CG-3000 is packed by 230kg Drum or bulk provided

5. Safety and Health

In case of skin contact, inflammation such as an eruption can break out. In case of getting in the eye, severe painful, when exposed excessively, eyesight trouble can happen. Also in case of inhaling steam of MDI, bronchial asthma, headache, dyspnea can break out, in case of eating it, it can cause a trouble in digestive organ and inflammation. In case of skin contact, you shall wash out with great quantities of water or soapy water. And in case of contact to the eye, you shall wash out with great quantities of water or soapy water for 15minutes before go to see a doctor. Also in case of inhaling steam of MDI, you shall be moved to the fresh place, be kept safe and warm, be tried artificial respiration in need. In case of eating it, you shall eat a large quantity of water or milk, raw egg and vomit before go to see a doctor. It's not much inflammable but should be careful with fire. In case of fire extinguishing, carbonic acid gas type is appropriate. In case of big fire you shall put out a fire with water.

6. Storage and Handling

Appropriate storage temperature for CG-3000 is 20~35°C. Be careful especially not to mix water with the storage tool, you shall make airtight with nitrogen gas if possible. When you work with MDI you shall wear an appropriate safety equipment, in need shall set ventilator or wear a gas mask. After work, you have to wash out with soapy water, polluted working uniform should be washed out before wearing.