

# COSMONATE CG-63S

## -Technical Data Sheet-

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### 1. characteristics of product

Cosmonate CG-63S is Special Modified MDI which is widely used in soft material field automobile, Seat Cushion and Back foam manufacturing.

Cosmonate CG-63S is liquefied product in high temperature, so easy to treat for storage up to 10, as a Solvent Free type, mixed with one volume MDI of 4,4-Diphenyl-methane diisocyanate, of which more than two volume, three volume, four volume's oligomer, has maximum 20cps(25 ) of adhesion degree.

### 2. product application



Vehicle SEAT



airplane SEAT



train SEAT



furniture SOFA

Cosmonate CG-63S is a special liquid modified MDI which developed as suitable for Seat Cushion and Back Foam manufacturing. It is used in field which requires high repulsive elasticity and excellent operation, formation.

It gives possibility and improvement to make high elasticity Seat Pad in the meantime it's been hard to manufacture with general common MDI. It is widely used in making Seat of automobile, RV Car, commercial car, railway, etc. and furniture Cushion materials.

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## 3. Product standards & general properties

item	evaluation	Unit	Result
<b>Product specifications</b>			
NCO content	ASTM D 1638	wt%	36.0 ~ 37.0
viscosity (25°C)	ASTM D 1638	cps	Max. 20
H.C content	ASTM D 1638	%	Max. 0.3
Acid content	ASTM D 1638	%	Max. 0.1
specific gravity (25°C)	ASTM D 1638	-	1.21 ~ 1.23
<b>General Properties</b>			
Product exterior			light brown liquid
Boiling point		°C	208
Freezing point		°C	below 10
Vapor pressure(25°C)		mmHg	negilgible
Flash point		°C	177 ~ 218
<b>Chemical structure</b>			
<p>Over n=0,1,2,3,4</p> <p>The chemical structure shows a repeating unit of a polyurethane chain. It consists of three benzene rings. The first and third rings are substituted with an isocyanate group (-NCO) at the para position. The second ring is part of a repeating unit enclosed in brackets with a subscript 'n'. This central ring is substituted with an isocyanate group (-NCO) at the para position and a methylene group (-CH<sub>2</sub>-) at the other para position. The methylene groups of the first, second, and third rings are connected to form a continuous chain: -CH<sub>2</sub>-[C<sub>6</sub>H<sub>4</sub>(NCO)-CH<sub>2</sub>]<sub>n</sub>-CH<sub>2</sub>-.</p>			

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## 4. product packaging

Cosmonate CG-63S 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-63S is 25~35°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.