

COSMONATE MC-70

–Technical Data Sheet–

1. characteristics of product

Cosmonate MC-70 is special modified MDI that is widely used in manufacturing vehicle seat cushion and back form in the soft field. Cosmonate MC-70 can be easily stored and handled with liquefied product up to 10°C in normal temperature. The product has the maximum viscosity of 15cps (25°C) as solvent-free form, mixed with monomer MDI of 4,4-Diphenylmethane diisocyanate and its oligomer above dimer, trimer and tetramer.

2. product application



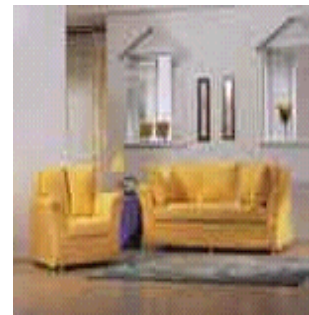
Vehicle SEAT



airplane SEAT



train SEAT



furniture SOFA

Cosmonate MC-70 is a special modified MDI, which is widely used for making automobile seat cushions and back foams. Cosmonate MC-70 is liquid at room temperature and can be stored and handled easily in the temperature of up to 10°C. In its solvent-free form, it provides a viscosity of up to 15 cps (25°C).

COSMONATE MC-70

3. Product standards & general properties

item	evaluation	Unit	Result
Product specifications			
NCO content	ASTM D 1638	wt%	36.0 ~ 37.0
viscosity (25°C)	ASTM D 1638	cps	Max. 15
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
general properties			
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
chemical structure			
<p>Over n=0,1,2,3,4</p> <p>The chemical structure shows a repeating unit of the polymer 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 enclosed in square brackets with a subscript 'n', indicating it is a repeating unit. Each benzene ring is connected to the next by a methylene group (-CH₂-). The overall structure is: OCN-C₆H₄-CH₂-[C₆H₄-CH₂]_n-C₆H₄-NCO.</p>			

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4. product packaging

Cosmonate MC-70 uses 250kg drum package or bulk supply.

5. Safety and Health

Skin contact might cause rash or inflammation and eye contact might cause severe pain and excessive exposure might cause sight disorder. Also, if you inhaled MDI steam, it would cause bronchial asthma, headache, difficulty to breathing, and etc, and in case of taken, it will cause stimulation and inflammation of digestive organs. If contacted with skin, wash out with much water or soapy water. If contacted with eyes, wash out with much water or soapy water for about 15 minutes and get medical examination. Also, if you inhaled MDI steam, move to the fresh area, keep warm stabilized, and practice artificial respiration when it's necessary. If swallowed, feed much water or milk, or raw egg and make them throw up, then get medical examination as soon as possible. It has very rare ignition danger, but watch out for fire hazard if digested, carbonic acid gas digestion is suitable. In case of conflagration, put out with water.

6. Storage and Handling

The normal keeping temperature for MC-70 is 25~35C. Be cautious not to mix moisture into the storage container, and seal the container with dry nitrogen gas by all possible means. When working with MDI, make sure to put on adequate safety outfits and when necessary, put on gas mask or set up ventilation facilities. After the operation, make sure to wash up with soap, and to wash contaminated overalls thoroughly before wearing.