

# COSMONATE MC-82W

## –Technical Data Sheet–

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### 1. characteristics of product

Cosmonate MC-82W is a special modified MDI, that is widely used to enhance softness for products such as automobile and furniture seat cushions and head rests. Cosmonate MC-82W could be stored and be properly used as a liquefied product in the normal temperature up of 10°C. When in solvent-free form, it is mixed with 4,4-diphenylmethane diisocyanate MDI monomer. When these are mixed with high resolution oligomer that is of dimer, trimer, and tetramer, it becomes a product that has up to a maximum viscosity of 25cps(25°C).

### 2. product application



car Seat



bicycle pad



Head Rest



seat cushion

Cosmonate MC-82W is produced to conform with seat cushion foam production by using special deviation form of MDI. It is used in producing products that require high-level operation, molding and deep solidification such as cushion pad and head rest pad. Especially, it is a product that has enhanced cure properties which is widely used not only in vehicle seat cushions, but also in sofa furniture, chair cushion and bicycle pad.

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## 3. Product standards & general properties

item	evaluation	Unit	Result
<b>Product specifications</b>			
NCO content	ASTM D 1638	wt%	35.0 ~ 36.0
viscosity (25°C)	ASTM D 1638	cps	Max. 25
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>			

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## 4. product packaging

Cosmonate MC-82W 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 proper keeping temperature for MC-82W is 25~35°C. 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 working clothes thoroughly before wearing.