

# COSMONATE LT

## –Technical Data Sheet–

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### 1. Characteristics of Product

Cosmonate LK is modified MDI with clear and light yellow color that is easily handled and used in the temperature of over 10°C by making some portion of crystallized solid cosmonate PH carboiimide to maintain liquid state with low viscosity of Max. 140 (25°C) on normal temperature.

### 2. Product Application



**Air Filter**



**Out Sole for Sports Shoe**

Cosmonate LT : Since some structure of product has harder imide bond than urethane bond, it has strong durability and inner hydrolysis, and uses small amount to improve property of matter since it has good mechanical intensity. Also, it is used to improve safety of final product in low temperature since it has superb effect on improving common nature of Free NCO Group and Polyol when making prepolymer. Cosmonate LT is widely used in many different field due to its effect explained above. And the field that cosmonate LT is used in are as followed : vehicle parts such as air filter and sporting goods such as out sole of shoes.

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## 3. Product standards & general properties

Item	Evaluation Method	Unit	Result
<b>Product Standards</b>			
NCO Content	ASTM D 1638	wt%	26.5 ~ 27.5
Viscosity (25°C)	ASTM D 1638	cps	80 ~ 140
Specific Gravity(25°C)	ASTM D 1638	-	1.195 ~ 1.25
<b>General Properties</b>			
Product Exterior			Light Yellow Color Liquid
Boiling Point		°C	208
Freezing Point		°C	10 이하
Evaporation Pressure(25°C)		mmHg	0.0003
Ignition Point		°C	210
<b>Chemical Structure (Carbodiimide bond)</b>			

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## 4. Product Packaging

Cosmonate LT uses 250kg drum package

## 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 storage temperature of Cosmonate LL is 20°C–35°C. Take extra precautions to prevent moisture from being mixed into the storage container. Seal the container with dry hydrogen gas if possible. When working with MDIU, it is required to wear proper safety gear and, if necessary, a ventilation system needs to be installed or a gas mask should be put on. After work, hands should be washed with soap and water, and the contaminated working garment must be washed before reuse.