

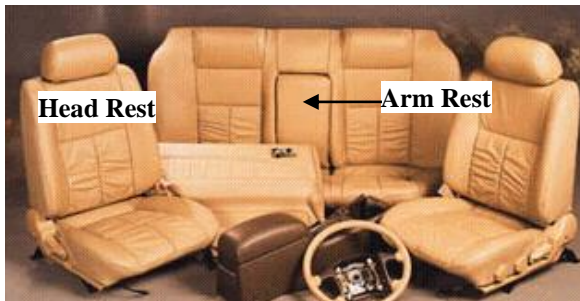
COSMONATE CG-1135

–Technical Data Sheet–

1. characteristics of product

Cosmonate CG-1135 is a specially modified MDI, which is used for making automobile head rests and arm rests, as well as making sound absorbers, which reduce various types of noise caused by automobile engines, roads, and tires. Cosmonate CG-1135 is liquid at room temperature and has excellent storage stability, making it possible to handle it easily. In its solvent-free form, it contains monomeric MDI of 4,4-diphenylmethane diisocyanate (MDI) and oligomers including polymer, trimer, and tetramer in mixture. It provides a viscosity of up to 100 cps (25°C).

2. product application



Automobile head rests and arm rests / Automobile noise absorbers / Soft foams (cushions)

Cosmonate CG-1135 is a specially modified MDI, which is used for making automobile head rests and arm rests, sound absorbers, and other soft foams. In particular, it has good eco-friendliness and air ventilation. Also, the foams feel good and can be manufactured for a wide variety of uses and help prevent various types of jointing, meaning that the product can be used for diverse areas.

COSMONATE CG-1135

3. Product standards & general properties

Items	evaluation methods	units	results
Product specifications			
NCO content	ASTM D 1638	wt%	30.0~31.0
Viscosity (25°C)	ASTM D 1638	cps	MAX. 100
Specific weight (25°C)	ASTM D 1638	-	1.20 ~ 1.22
General Properties			
Product exterior			Brown Liquid
Boiling point		°C	208
Freezing point		°C	below 10
Vapor pressure (25°C)		mmHg	negilgible
Flash point		°C	177 ~ 218
Molecular Weight		g/mol	240 ~ 260
chemical structure			
<p>Over n=0,1,2,3,4</p>			

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4. product packaging

Cosmonate CG-1135 is packed in single 230kg drum

5. Safety and Health

Contact with the skin can cause inflammation including a rash, while contact with the eyes can cause severe pain, and visual disturbance may result in the event of excessive exposure. Inhalation of the vapor of MDI can cause bronchial asthma, headaches, or breathing difficulties, and its ingestion can cause irritation and inflammation of the gastrointestinal tract. In cases of contact with the skin, rinse the affected area completely with plenty of water or soapy water. In cases of contact with the eyes, rinse immediately with plenty of water or soapy water for 15 minutes, and seek professional medical help. In cases of MDI vapor inhalation, move the affected individual to a place where there is plenty of fresh air, keep him/her in a warm, stable condition, and perform artificial respiration if needed. In cases of ingestion, allow the affected individual to vomit with their head positioned lower than the hip to prevent suffocation from respiratory tract inhalation, and provide symptomatic treatment. Seek medical help if necessary. In the event of a fire, extinguish with a carbon dioxide fire extinguisher. In the event of a large fire, extinguish with water.

6. Storage and Handling

The optimal storage temperature for CG-1135 is 25~35°C. Caution is needed to prevent moisture from being mixed in the storage container, which should be sealed by dry nitrogen gas if possible. When working with MDI, proper safety equipment should be worn, and a ventilation or gas mask should be used if necessary. After work, wash completely with soapy water. Contaminated work clothes should be washed and cleaned for the next use.