

# **Product Documentation**

**Product Name : COSMONATE CG-26N**

Kumho Mitsui Chemicals Co.,

# COSMONATE CG-26N

## -Technical Data Sheet-

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### 1. characteristics of product

Cosmonate CG-26N is a specially modified MDI, which is used for making steering wheels (ISF) and window encapsulation with the use of reaction injection molding (RIM) technology. Cosmonate CG-26N is liquid at room temperature, with a good storage stability in cold season, which makes 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 190 cps (25°C).

### 2. Product application



automobile In Pannel



Arm Rest



Automobile interior materials

Cosmonate CG-26N is a special modified MDI, which is used for making interior materials, like steering wheels and air filters (ISF), and also for making exterior materials like window encapsulation and rear spoilers (RIM products). With satisfactory flowability, it is advantageous in forming complex molds. It also has excellent mechanical properties including tensile strength, tear strength, and elongation.

# COSMONATE CG-26N

## 3. Product standards & general properties

Category	Assessment methods	Unit	Result
<b>Product standards</b>			
NCO content	ASTM D 1638	wt%	25.5 ~ 26.5
viscosity (25°C)	ASTM D 1638	cps	100 ~ 200
specific gravity(25°C)	ASTM D 1638	-	1.20 ~ 1.24
<b>general properties</b>			
product exterior			Yellow liquid
Boiling Point		°C	200 ~ 208
Congeval point		°C	Below 0°C
Pressure (25°C)		mmHg	ignorable level
ignition point		°C	177 ~ 218
Molecular Weight		g/mol	240 ~ 260
<b>Chemical structure</b>			
Over n=0,1,2,3,4			

# COSMONATE CG-26N

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## 4. Packaging

Cosmonate CG-26N is packed 250kg Drum

## 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-26N is 20~35°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.