

# **Cosmonate SR-3001C Introduction -Technical Data Sheet-**

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**KUMHO MITSUI CHEMICALS, INC**

**Application Technology Center**

# Cosmonate SR-3001C Applications

## ■ Characteristics of Product

COSMONATE SR-3001C is a special polymeric MDI product widely used in the production of hard and semi-hard polyurethane foam. Cosmonate SR-3001C is liquid at room temperature and can be stored ( $-20^{\circ}\text{C}$ ) and handled easily in winter. In its solvent-free form, it provides a viscosity of up to at least 300 cps [ $25^{\circ}\text{C}$ ] and has 2.75 average functional groups.

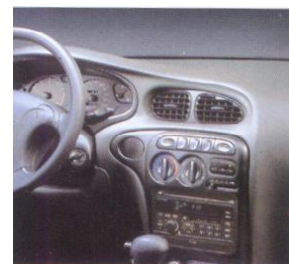
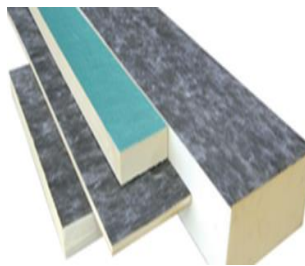
## ■ Chemical Structure



Refrigerators



Panels and boards for buildings



Automobile interior material

Cosmonate SR-3001C is widely used for panels for panel, Automobile interior materials.

# Cosmonate SR-3001C Physical properties

## ■ Product standards & general properties

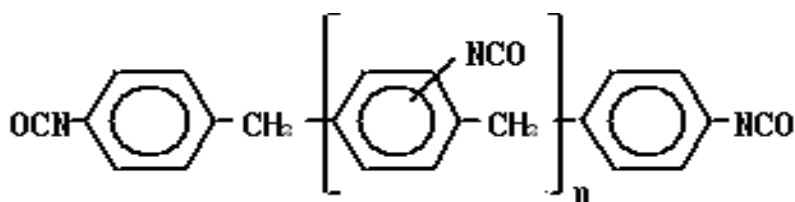
### Product Standards

Item	Evaluation method	Unit	Result
NCO content	ASTM D 1638	wt%	30.5 ~ 31.5
Viscosity (25℃)	ASTM D 1638	cps	300 ~ 450
Specific gravity (25℃)	ASTM D 1638	-	1.23 ~ 1.25

### General properties

Product Exterior		Brown Liquid
Boiling point	℃	200 ~ 208
Freezing point	℃	below -20
Evaporation pressure (25℃)	mmHg	ignorable level
Ignition point	℃	177 ~ 218

## ■ Chemical Structure



# Cosmonate SR-3001C Handling and precautions

## ■ Product Packaging

Cosmonate SR-3001C uses 250kg drum package or bulk supply.

## ■ 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.

## ■ Storage and Handling

SR-3001C's proper keeping temperature is 20~35℃. Be extremely cautious so that water doesn't get mixed in storage instrument and seal the instrument with dry nitrogen gas. In case of working with MDI, wear the proper safety tools. If necessary, install ventilation equipment or wear gas mask. After work, be certain to wash with soapy water and clean the contaminated overalls before you wear it.