

COSMONATE JG-70K

-Technical Data Sheet-

1. characteristics of product

COSMONATE JG-70K is a special polymeric MDI of low viscosity used for electrostatic paint for CASE. COSMONATE JG-70K is kept in liquid state at ambient temperature, and is easy to store and handle at temperatures as low as 10°C. The solvent-free product has viscosity of up to 80 cps at 25°C and a mean functional group of approx. 2.4, with a mixture of monomer MDI of 4,4-Di phenylmethane diisocyanate, and its oligomer of dimer, trimer and quatromer.

2. product application



Paint for construction



Electrodeposition paint



Adhesive



Floor water-proofing materials

COSMONATE JG-70K is widely used in the area of CASE such as paints, adhesives and floor water-proofing materials, and is applicable to the production of lightweight polyurethane foam such as sprayed insulators for the internal and external walls of cold storage warehouses, architectural structures, etc.

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3. Product standards & general properties

Item	Evaluation	Unit	result
Product specifications			
NCO content	ASTM D 1638	wt%	31.5 ~ 31.9
viscosity(25°C)	ASTM D 1638	cps	60 ~ 100
specific gravity(25°C)	ASTM D 1638	-	1.23 ~ 1.25
General physical properties			
Appearance			brown liquid
Boiling point		°C	200 ~ 208
Freezing point		°C	0
Vapor pressure(25°C)		mmHg	negligible
Flash point		°C	177 ~ 218
Molecular weight		g/mol	300 ~ 400
Chemical structure			
<p>Over n=0,1,2,3,4</p> <p>The chemical structure shows a repeating unit of a polyurethane chain. It consists of three benzene rings. The first and third rings are substituted with an isocyanate group (-NCO) at the para position. The first ring is connected to a methylene group (-CH₂-), which is then connected to a methylene group (-CH₂-) that is part of a repeating unit enclosed in brackets with a subscript 'n'. This repeating unit also contains a methylene group (-CH₂-) connected to another benzene ring, which is in turn connected to a methylene group (-CH₂-) that is connected to the third benzene ring. The second benzene ring in the repeating unit is substituted with an isocyanate group (-NCO) at the para position.</p>			

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4. product packaging

Cosmonate JG-70K 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, drink plenty of water, milk or raw eggs and induce vomiting, then seek medical help immediately. 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 JG-70K is 20~35°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.