

Technical Data



Property		unit	SPEC
Material		-	Polyester
Length	MD	mm	230±10
	TD	mm	230±10
Weight		g/sh	6.8±0.7
		g/m ²	130±13
Thickness		μm	500±20
Time to sorption	HORL.	sec/6Φ	≤ 4
	VERTL.	sec/5cm	≤ 60
Absorbency		g/sh	≥ 15.7
		g/m ²	≥ 300
APC	≥ 0.3 μm	ea/sh, 1cfm	≤ 60
LPC	0.5 μm	ea/m ²	≤ 125
Lint	≥ 100μm	ea/sh	≤ 30

Basic Info

Description

WW-3009N is Cleanroom Wiper applied with Thermal cutting to minimize the particle generation on edges. Using the specially weaved 100% Polyester prevents from the generation of Particle and Fiber and improves the absorbency and wipe ability. WW-3009N is produced in special cleaning facilities And with Cleaning Know-how.

Product Environment

- Laundered and packed in class10 clean room (Certified ISO 9001:2009)
- Assure quality from material manufacture to shipment
- Cleanroom is continually managed for maximum customer satisfaction
- Using De-ionized water to minimize ions and Particles
- Utilizing U/F system to reduce the number of particles (above 0.3μm) less than 50 per ml

Application

- Wiper for Cleanroom

Features

- Minimizes Particles, NVR and Ion contents
- Special process for better wipe and absorption capacity
- Double-wrapped to prevent contamination
- High absorbing rate and capacity

Analysis Report

Job Number VC-22-01

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Analysis Date 2021.03.22

1. Title & object	WW-3009, WW-3009N 제품 Particle 품질 검증
2. Client	해외영업팀 이상환
3. Kind of Sample	WW-3009, WW-3009N
4. Analysis Item & Method	APC (JIS-B-9923 6.2 Tumbling Method), Lint (IEST-RP-CC004.2)
5. Equipment	APC (TSI-9110), Lint (S-Counter_S1-50)
6. place & Analyst	㈜케이엠 1공장 분석실
7. Purpose	WW-3009, WW-3009N Particle 수준 파악 목적 품질 검증

1. 시료 정보

- 제조일자 2021.03.17 (수) ① WW-3009 ② WW-3009N 제품

2. 품질 분석 결과

*Sample : 3ea

Property	Unit	Spec	Product	
			WW-3009	WW-3009N
APC	EA	$\leq 50, \geq 0.3\mu\text{m}$	5.48	6.92
Lint		$\leq 25\text{EA/sh}, \geq 100\mu\text{m}$	1.00	4.00

KM CORPORATION ANALYSIS CENTER

Tested by Dabin Jung *Dabin Jung*

note : 4. This Result is only available for the use above-mentioned

Approved by BongKyu Kim *BongKyu Kim*



Mar. 22th' 2021

ANALYSIS CENTER

1. Chemical Product and Company Identification

a. Product Name	Polyester Wiper
b. Recommended usage and restriction in use	
Recommended usage	Cleaning for the clean environment
c. Information on manufacturer/importer/distributor	
Company name	KM Co., Ltd.
Address	2 Gil 11, Industrial Zone No. 2, Miyang-myeon, Anseong-si, Gyeonggi-do
Emergency phone no.	031-678-8917

2. Hazards and risk Identification

a. Classification of hazards and risks	Not applicable
b. Warning statements including the preventive action words	
Pictogram	Not applicable
Signal word	Not applicable
Hazard statements	Not applicable
Precautionary statements	
Prevention	No data available
Response	No data available
Storage	No data available
Disposal	No data available
c. Hazards and risks which are not contained in the classification of hazards and risks (NFPA)	
Health	1
Fire	1
Reactivity	0

3. Composition/information on ingredients

Substance	Other name (Official name)	Cas No.	Contents (%)
Polyethylene Terephthalate	POLY(OXY-1,2-ETHANED)	25038-59-9	100.00%

4. First aid measures

a. After eye contact	Rinse the opened eye for more than 20 minutes under the running water immediately. Take the medical actions immediately.
b. After skin contact	Not applicable
c. After inhalation	Take the emergency medical care. Move the person to the fresh air. If the person does not breathe, conduct the CPR. If the breathing is hard, supply the oxygen.
d. After swallowing	Do not force the unconscious person to eat anything through mouth. Take the medical actions immediately.
e. Notes to doctor	The medical person is recommended to know the substance and take the proper protective actions.

5. Firefighting measures

a. Suitable extinguishing agents	
Suitable extinguishing media	Dry sand, dry chemicals, alcohol-resistant spray, water spray, general spray, and CO2
Non suitable extinguishing media	No data available
In case of large fire	Water spraying or general spraying
b. Hazard occurring from the chemical substance	It can be burned due to the heat, spark or flame. Some may be burnt but it does not easily get ignited. If set fire, it can generate the toxic gas. The inhalation of the substance may be hazardous to the human.
c. Protective equipment and precautionary measures in fire fighting	If not dangerous, try to move the bag from the fire scene.

6. Accidental release measures

a. Actions and protective equipment required to protect the human	Not applicable
b. Actions required to protect the environment	Not applicable
c. How to purify or remove	Not applicable

7. Handling and storage

a. Precautions for safe handling	Pay attention to the substance and conditions to be avoided. Try to work by referring to the engineering control and personal protective equipment. Pay attention to the high temperature.
b. Safe storage method	Seal it for protection. Store it in cool and dry location. Pay attention to the substance and conditions to be avoided.

8. Exposure controls/personal protection

a. Standard of exposure of chemical substance and biological exposure	
Domestic regulation	No data available
ACGIH regulation	No data available
Biological exposure standard	No data available
b. Proper engineering control	Use the process segregation or local ventilation or keep the air level under the exposure standard.
c. Personal protective equipment	
Protection of respiratory organ	No data available
Protection of eye	No data available
Protection of hand	No data available
Protection of body	No data available

9. Physical and chemical properties

a. Appearance	
Form	Solid (fiber)
Color	White
b. Odor	None
c. Threshold value of odor	No data available
d. pH	No data available

e. Melting point/ freezing point	254~284 °C
f. Initial boiling point and range of boiling point	Not applicable
g. Flash point	No data available
h. Evaporation rate	Not applicable
i. Flammability	No data available
j. Upper limit/lower limit of flammability or explosion	No data available
k. Vapor pressure	Not applicable
l. Solubility	Water solubility: insoluble
m. Vapor density	Not applicable
n. Density	1.33-1.45 (water=1)
o. n-octane/ water partition coefficient	Not applicable
p. Self-igniting temperature	500 °C
q. Decomposition temperature	No data available
r. Viscosity	No data available
s. Molecular volume	No data available

10. Stability and reactivity

a. Chemical stability and possibility of hazardous reactions	Stable at normal temperature and pressure Some can burn, but not easily ignite It may generate the irritating and poisonous gas in case of fire Inhalation of the substance may be harmful
b. Conditions to be avoided	Source of ignition such as heat, spark or flame
c. Substance to be avoided	Flammable material, irritant, toxic gas
d. Hazardous decomposition products	No data available

11. Toxicological information

a. Information on the highly possible exposure route	No data available
b. Information on hazard to health	
Acute toxicity	
Mouse	LD50 >3200 mg/kg Rat
Skin	LD50 >1000 mg/kg Guinea pig
Inhalation	No data available
Skin corrosion and irritation	No data available
Serious eye damage/irritation	No data available
Oversensitive respiratory system	No data available
Oversensitive skin	No data available
Carcinogenicity	
Industrial Safety and Health Act	No data available
Ministry of Labor, Announcement	No data available
IARC	No data available
OSHA	No data available
ACGIH	No data available
NTP	No data available
EU CLP	No data available
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
STOT (specific target organ toxicity) -single exposure	No data available
STOT -repeated exposure	No data available
Aspiration hazard	No data available

12. Ecological information

a. Bio toxicity	
Fish	No data available
Shellfish	No data available
Birds	No data available
b. Persistence and degradability	
Persistence	No data available
Degradability	No data available
c. Bioaccumulation	
Concentration	No data available
Biodegradability	No data available
d. Mobility in soil	No data available
e. Other harmful effects	No data available

13. Disposal considerations

a. Disposal method	If specified in the Waste Control Act, the contents and bag shall be disposed of.
b. Cautions in disposal	No data available

14. Transport information

a. UN No.	No information on UN transportation hazard classification available
b. Proper shipping name	Not applicable
c. Hazard rating in transport	Not applicable
d. Container rating	Not applicable
e. Marine pollutants	No data available
f. Special safety measures which the user needs to know for transport or transportation means	
Emergency measures in case of fire	Not applicable
Emergency action in case of release	Not applicable

15. Regulatory information

a. Restriction according to the Industrial Safety and Health Act	Not applicable
b. Restriction according to Hazardous Chemical Substance Control Act	Not applicable
c. Restriction according to Hazardous Substance Safety Control Act	Not applicable
d. Restriction according to Waste Control Act	Designated wastes
e. Restrictions according to other domestic and foreign laws	
Domestic restrictions	
Residual organic contaminant Control Act	Not applicable
Overseas restrictions	
US Control Information (CERCLA regulation)	Not applicable
US Control Information (CERCLA regulation)	Not applicable
US Control Information (EPCRA 302 regulation)	Not applicable
US Control Information (EPCRA 304 regulation)	Not applicable

US Control Information (EPCRA 313 regulation)	Not applicable
US Control Information (Rotterdam Convention substance)	Not applicable
US Control Information (Stockholm Convention substance)	Not applicable
US Control Information (Montreal Protocol substance)	Not applicable
EU classification information (confirmed classification result)	Not applicable
EU classification information (hazard words)	Not applicable
EU classification information (safety words)	Not applicable

16. Other information

a. Sources of data

MSDS : www.kosha.or.kr which is provided by Safety and Health Corp.

b. Date of initial preparation 7/15/2003

c. Number of revisions and date of final revision

Number of revisions 3 times

Date of final revision 3/8/2021

d. Others

o This data is based on our current knowledge and is intended to provide information on health and safety environment.

Therefore, the information contained herein does not imply a guarantee or specification of the specific properties of the product.