

CERTIFICATE OF ANALYSIS

To Whom It May Concern:

Date: JAN 12 2023

Shipment : VELA V-276N
FROM: KAOHSIUNG, TAIWAN TO: NAGOYA, JAPAN

Quantity : 18.800MT

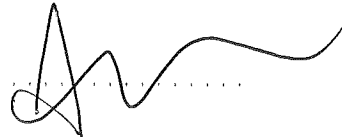
Commodity : MONOETHYLENE GLYCOL

WE HEREBY CERTIFY THAT MEG PRODUCT TEST REPORT:

LOT NO.: 230105

<u>ITEMS</u>	<u>UNIT</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
WATER	WT%	≤ 0.1	0.030
COLOR	PT-CO	≤ 5	1
SP/GR 20/20 °C		1.1151-1.1156	1.1153
ACIDITY (AS ACETIC ACID)	WT%	≤ 0.003	0.0008
IRON (AS FE)	PPM	≤ 0.08	0
CHLORIDE (AS CL—)	PPM	≤ 0.5	0.021
DEG CONTENT	WT%	≤ 0.1	0.008
ALDEHYDES (AS FORMALDEHYDE)	PPM	≤ 10	0.81
ASH	WT%	≤ 0.005	0.0005
DISTILLATION RANGE			
AT 760 MMHG 5% VOL	°C	≤ 196.6	197.0
95% VOL	°C	≤ 198.5	197.3
UV T% AT 220NM	%	70MIN	89.2
275NM	%	90MIN	97.9
350NM	%	98MIN	100
MEG CONTENT	WT%		99.96

CHINA MAN-MADE FIBER CORPORATION



CERTIFICATE OF ANALYSIS

To Whom It May Concern:

Date: FEB 17 2023

Shipment : OOCL JAKARTA V-153N
FROM: KAOHSIUNG, TAIWAN TO: NAGOYA, JAPAN

Quantity : 18.800MT

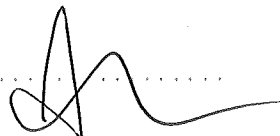
Commodity : MONOETHYLENE GLYCOL

WE HEREBY CERTIFY THAT MEG PRODUCT DETAILING

LOT NO.230210

ITEMS	UNIT	SPECIFICATIONS	RESULTS
WATER	WT%	≤ 0.1	0.028
COLOR	PT-CO	≤ 5	1
SP/GR 20/20 °C		1.1151-1.1156	1.1153
ACIDITY (AS ACETIC ACID)	WT%	≤ 0.003	0.0008
IRON (AS FE)	PPM	≤ 0.08	0
CHLORIDE (AS CL—)	PPM	≤ 0.5	0.020
DEG CONTENT	WT%	≤ 0.1	0.010
ALDEHYDES (AS FORMALDEHYDE)	PPM	≤ 10	0.81
ASH	WT%	≤ 0.005	0.0005
DISTILLATION RANGE			
AT 760 MMHG 5% VOL	°C	≥ 196.6	197.0
95% VOL	°C	≤ 198.5	197.4
UV T% AT 220NM	%	70MIN	91.4
275NM	%	90MIN	98.4
350NM	%	98MIN	100
MEG CONTENT	WT%		99.96

CHINA MAN-MADE FIBER CORPORATION



CERTIFICATE OF ANALYSIS

To Whom It May Concern:

Date: MAR 17 2023

Shipment : OOCL JAKARTA V-154N
FROM: KAOHSIUNG, TAIWAN TO: NAGOYA, JAPAN

Quantity : 18.800MT

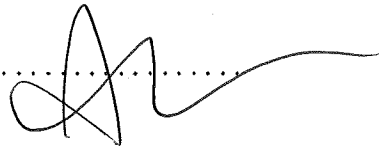
Commodity : MONOETHYLENE GLYCOL

WE HEREBY CERTIFY THAT MEG PRODUCT DETAILING

LOT NO.230310

ITEMS	UNIT	SPECIFICATIONS	RESULTS
WATER	WT%	≤ 0.1	0.025
COLOR	PT-CO	≤ 5	1
SP/GR 20/20 °C		1.1151-1.1156	1.1154
ACIDITY (AS ACETIC ACID)	WT%	≤ 0.003	0.0008
IRON (AS FE)	PPM	≤ 0.08	0
CHLORIDE (AS CL—)	PPM	≤ 0.5	0.022
DEG CONTENT	WT%	≤ 0.1	0.011
ALDEHYDES (AS FORMALDEHYDE)	PPM	≤ 10	0.69
ASH	WT%	≤ 0.005	0.0006
DISTILLATION RANGE			
AT 760 MMHG 5% VOL	°C	≥ 196.6	197.0
95% VOL	°C	≥ 198.5	197.3
UV T% AT 220NM	%	70MIN	91.0
275NM	%	90MIN	98.5
350NM	%	98MIN	100
MEG CONTENT	WT%		99.96

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CERTIFICATE OF ANALYSIS

To Whom It May Concern:

Date: APR 07 2023

Shipment : OOCL CHARLESTON V-220N
FROM: KAOHSIUNG, TAIWAN TO: NAGOYA, JAPAN

Quantity : 18.800MT

Commodity : MONOETHYLENE GLYCOL

WE HEREBY CERTIFY THAT MEG PRODUCT TEST REPORT:

LOT NO. 230323

ITEMS	UNIT	SPECIFICATIONS	RESULTS
WATER	WT%	≤ 0.1	0.026
COLOR	PT-CO	≤ 5	1
SP/GR 20/20 °C		1.1151-1.1156	1.1154
ACIDITY (AS ACETIC ACID)	WT%	≤ 0.003	0.0008
IRON (AS FE)	PPM	≤ 0.08	0
CHLORIDE (AS CL—)	PPM	≤ 0.5	0.021
DEG. CONTENT	WT%	≤ 0.1	0.010
ALDEHYDES (AS FORMALDEHYDE)	PPM	≤ 10	0.78
ASH	WT%	≤ 0.005	0.0006
DISTILLATION RANGE			
AT 760 MMHG 5% VOL	°C	≤ 196.6	197.1
95% VOL	°C	≤ 198.5	197.4
UV T% AT 220NM	%	70MIN	92.2
275NM	%	90MIN	98.7
350NM	%	98MIN	100
MEG CONTENT	WT%		99.96

CHINA MAN-MADE FIBER CORPORATION



CHINA MAN-MADE FIBER CORPORATION
10F., NO.50, SEC.1, XINSHENG S.RD., TAIPEI 100, TAIWAN

ORIGINAL

C9412212A

CERTIFICATE OF ANALYSIS

To Whom It May Concern:

Date: MAY 05 2023

Shipment : OOCL CHARLESTON V-221N
FROM: KAOHSIUNG, TAIWAN TO: NAGOYA, JAPAN

Quantity : 18.800MT

Commodity : MONOETHYLENE GLYCOL

WE HEREBY CERTIFY THAT MEG PRODUCT TEST REPORT:

LOT NO.:230427

ITEMS	UNIT	SPECIFICATIONS	RESULTS
WATER	WT%	≤ 0.1	0.023
COLOR	PT-CO	≤ 5	1
SP/GR 20/20 °C		1.1151-1.1156	1.1154
ACIDITY (AS ACETIC ACID)	WT%	≤ 0.003	0.0009
IRON (AS FE)	PPM	≤ 0.08	0
CHLORIDE (AS CL ⁻)	PPM	≤ 0.5	0.023
DEG CONTENT	WT%	≤ 0.1	0.011
ALDEHYDES (AS FORMALDEHYDE)	PPM	≤ 10	1.02
ASH	WT%	≤ 0.005	0.0006
DISTILLATION RANGE			
AT 760 MMHG 5% VOL	°C	≥ 196.6	197.1
95% VOL	°C	≥ 198.5	197.4
UV T% AT 220NM	%	70MIN	80.3
275NM	%	90MIN	93.5
350NM	%	98MIN	99.8
MEG CONTENT	WT%		99.96

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