TAISHAN FIBERGLASS INC.

DawenkouIndustrial Zone, Taian City, Shandong Province, P.R. China

CERTIFICATE OF ANALYSIS

J308-697

Product Name	合股纱-喷射纱合股纱-喷射纱-132BS	Test By	TAISHAN FIBERGLASS INC.
Item Number	ERS240-T132BS	Sampled From	Production Plant
Product Code		Product Grade	A
Production Date	20210204	Purchase Order No.	
Barcode Number		Container No.	DFSU6249397
Lot No	2101095HGS-Z040402 2101099HGS-Z040403		
Lot Capacity	2128.000 KG	L/C No.	

General Data:

Glass Type	E - Glass	Filament Diameter	12.3
Color	White	Sizing	Silane

Properties For Control Report:

Test Items	Accepted Standards		Test Results	
	Testing Standard	Standard Value	Average Value	Result
Appearance	GB/T18369-2008-5.1	Refer toGB/T18369-2008-5.1	/	PASS
Tex Standard Deviation (%)	GB/T 7690.1idt ISO 1889	≤6.0	0.6	PASS
Linear density (tex)	GB/T 7690.1idt ISO 1889	2400±192	2401	PASS
Moisture content (%)	GB/T 9914.1idt ISO 3344	≤0.20	0.04	PASS
Stiffness (mm)	GB/T 7690.4idt ISO 3375	135±30	138	PASS
Loss on ignition (%)	GB/T 9914.2eqv ISO 1887	1.25±0.15	1.24	PASS
Tensile breaking force (N/tex)	GB/T 7690.3 idt ISO 3341	≥0.30	0.42	PASS

Test Conclusions:

• Confirmed to all above specification

I hereby certify that the results above were obtained on the material referenced according to Taishan Fiberglass Inc. test procedures and frequency.
Certified by Quality Control Laboratory

Data Operator: Wang Lili Approval By: Sun Xue Date: 2021/3/2

山东泰山玻璃纤维有限公司 质量管理部

NOTE:

Disclaimer: The information given herein is not applicable to material graded as 'B'. The data obtained is based on the actual laboratory tests conducted either by Taishan Fiberglass Inc. or an approved laboratory and believed to be reliable information. The user is expected to test suitability of this product for the end use applications before commencing production. In no event shall Taishan Fiberglass Inc. be liable for any consequential, incidental, or indirect damages.

TAISHAN FIBERGLASS INC.

DawenkouIndustrial Zone, Taian City, Shandong Province, P.R. China

CERTIFICATE OF ANALYSIS

J308-697

Product Name	毡-粉剂毡毡-粉剂毡-EMC300	Test By	TAISHAN FIBERGLASS INC.
Item Number	EMC300-1524	Sampled From	Production Plant
Product Code		Product Grade	A
Production Date	20191127	Purchase Order No.	
Barcode Number		Container No.	DFSU6249397
Lot No	1911046DQZ-M033302 1911047DQZ-M033302		
Lot Capacity	2000.000 KG	L/C No.	

General Data:

Glass Type	E - Glass	Filament Diameter	0.000
Color	White	Sizing	Silane

Properties For Control Report:

Test Items	Accepted Standards		Test Results	
	Testing Standard	Standard Value	Average Value	Result
Moisture content(%)	GB/T 9914.1 idt ISO 3344	≤0.20	0.07	PASS
Loss on ignition(%)	GB/T 9914.2 eqv ISO 1887	1.10±1.50	3.57	PASS
Mass per unit area(g/m2)	GB/T 9914.3 idt ISO 3374	300±30.0	295	PASS
Solubility in Styrene (S)	GB/T 6006.1 eqv ISO 2558	≤40	13	PASS
Tensile breaking force(Sidewis	GB/T 6006.2 idt ISO 3342	≥60	295	PASS
Tensile breaking force(Lengthw	GB/T 6006.2 idt ISO 3342	≥60	184	PASS
Width (mm)	GB/T17470	1524±5	1524	PASS
Appearance	GB/T17470	Refer toGB/T17470	/	PASS

Test Conclusions:

• Confirmed to all above specification

I hereby certify that the results above were obtained on the material referenced according to Taishan Fiberglass Inc. test procedures and frequency.
Certified by Quality Control Laboratory

Data Operator: Wang Lili Approval By: Sun Xue Date: 2021/3/2

质量管理部

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TAISHAN FIBERGLASS INC.

DawenkouIndustrial Zone, Taian City, Shandong Province, P.R. China

CERTIFICATE OF ANALYSIS

J308-697

Product Name	毡-粉剂毡毡-粉剂毡-EMC450	Test By	TAISHAN FIBERGLASS INC.
Item Number	EMC450-1524	Sampled From	Production Plant
Product Code		Product Grade	A
Production Date	20190914-20210111	Purchase Order No.	
Barcode Number		Container No.	DFSU6249397
Lot No			
Lot Capacity	15600.000 KG	L/C No.	

General Data:

Glass Type	E - Glass	Filament Diameter	
Color	White	Sizing	Silane

Properties For Control Report:

Test Items	Accepted Standards		Test Results	
	Testing Standard	Standard Value	Average Value	Result
Moisture content(%)	GB/T 9914.1 idt ISO 3344	≤0.20	0.05	PASS
Loss on ignition(%)	GB/T 9914.2 eqv ISO 1887	3.65±1.50	3.32	PASS
Mass per unit area(g/m2)	GB/T 9914.3 idt ISO 3374	450±45.0	448.876	PASS
Solubility in Styrene (S)	GB/T 6006.1 eqv ISO 2558	≤40	20.36	PASS
Tensile breaking force(Sidewis	GB/T 6006.2 idt ISO 3342	≥60	360.377	PASS
Tensile breaking force(Lengthw	GB/T 6006.2 idt ISO 3342	≥60	263.388	PASS
Width (mm)	GB/T17470	1524±5	1524	PASS
Appearance	GB/T17470	Refer toGB/T17470	/	PASS

Test Conclusions:

• Confirmed to all above specification

I hereby certify that the results above were obtained on the material referenced according to Taishan Fiberglass Inc. test procedures and frequency.
Certified by Quality Control Laboratory

Data Operator: Wang Lili Approval By: Sun Xue Date: 2021/3/2

山东玻纤集团股份有限公司 质量管理部

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TAISHAN FIBERGLASS INC.

DawenkouIndustrial Zone, Taian City, Shandong Province, P.R. China

CERTIFICATE OF ANALYSIS

J308-697

Lot No:

1908022DQZ-M032602	1908022DQZ-M033403	2101108DQZ-M030102	2101108DQZ-M030103	2101109DQZ-M030103
2101109DQZ-M030202	2101109DQZ-M030203	2101110DQZ-M030202	2101110DQZ-M030203	2101111DQZ-M030203

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TAISHAN FIBERGLASS INC.

DawenkouIndustrial Zone, Taian City, Shandong Province, P.R. China

CERTIFICATE OF ANALYSIS

J308-697

Product Name	布-方格布布-方格布-EWR800	Test By	TAISHAN FIBERGLASS INC.
Item Number	EWR800-1400	Sampled From	Production Plant
Product Code		Product Grade	A
Production Date	20210128-20210206	Purchase Order No.	
Barcode Number		Container No.	DFSU6249397
Lot No	2101082FGB-MZB0303 2101082FGB-MZB0403 2101083FGB-MZB0403		
Lot Capacity	3712.000 KG	L/C No.	

General Data:

Glass Type	E - Glass	Filament Diameter	
Color	White	Sizing	Silane

Properties For Control Report:

Test Items	Accepted Standards		Test Results	
	Testing Standard	Standard Value	Average Value	Result
Moisture content(%)	GB/T 9914.1 idt ISO 3344	≤0.20	0.023	PASS
Loss on ignition(%)	GB/T 9914.2 eqv ISO 1887	0.60±0.20	0.562	PASS
Longitude Density (strand/cm)	GB/T 7689.2 idt ISO 4602	1.81±0.18	1.814	PASS
Latitude Density (strand/cm)	GB/T 7689.2 idt ISO 4602	1.55±0.15	1.539	PASS
Mass per unit area(g/m2)	GB/T 9914.3 idt ISO 3374	800±56.0	808.15	PASS
Width (mm)	GB/T 7689.3 idt ISO 5025	1400±10	1400.126	PASS
Appearance	GB/T18370	Refer toGB/T18370	/	PASS

Test Conclusions:

• Confirmed to all above specification

I hereby certify that the results above were obtained on the material referenced according to Taishan Fiberglass Inc. test procedures and frequency.
Certified by Quality Control Laboratory

Data Operator: Wang Lili Approval By: Sun Xue Date: 2021/3/2

山东泰山玻纤有限公司 质量管理部

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