

CONTINUOUS ELECTRONIC

GLASS FIBER
FABRIC AND YARN

China Jushi Co., Ltd. ("China Jushi" or "Jushi"; stock code: 600176) is a global leader in the fiberglass industry. It has maintained the leadership for many years in terms of scale, technology, market, profitability, and quality.

The company has won a number of prestigious awards such as China Grand Award for Industry, China Patent Gold Award, the National Science and Technology Progress Award, China Quality Award, and the Manufacturing Leadership Award. It is also a China National Key High Technology Enterprise, a National Technology Innovation Demonstration Enterprise and a National Green Manufacturer. It has a National Enterprise Technology Center and operates a distinguished Post-Doctoral program.

Founded in 2005, Jushi Plant No. 4 specializes in producing electronic glass yarn and fabric. The plant is certified to many renowned management systems including IATF16949, ISO9001, ISO14001, ISO45001 and ISO50001, and its products meet the requirements of RoHS and REACH. Its production lines for electronic fabric adopts a lot of high technologies developed by Jushi, such as high melting efficiency furnace, oxy-fuel firing, multi-collet winding with large bushings, integrated technology of warping and sizing, high-rate air-jet weaving, high-performance treatment agent, high splitting, and high efficiency conveying systems. The lines are the world's largest, feature the highest automation and offer high-quality products.

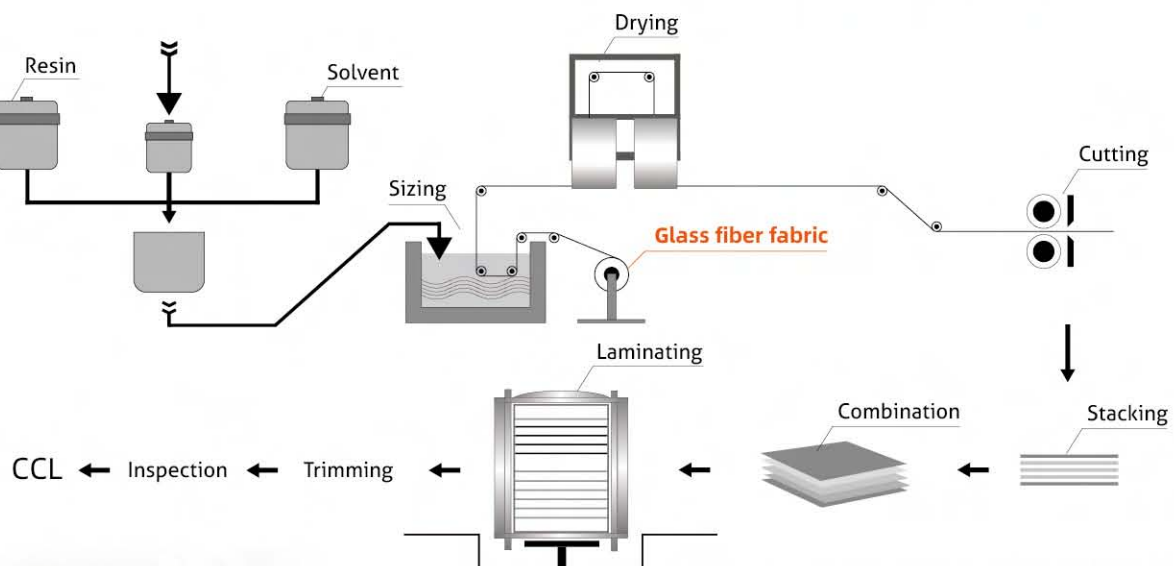
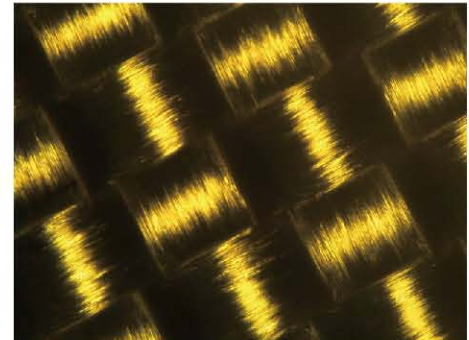




CONTINUOUS ELECTRONIC GLASS FIBER FABRIC

PRODUCT DESCRIPTION

Continuous electronic glass fiber fabric is a type of plain fabric made by weaving electronic glass fiber yarn on air-jet looms. The fabric will then be desized, treated on the surface, and split. It allows easy impregnation by resin. Coated by silane coupling agents on the surface, the electronic glass fiber fabric has excellent cohesion to resin matrices, offering outstanding electrical insulation, thermal resistance and processability to PCBs it reinforces. The product is widely used in electronic and communications fields.



TECHNICAL DATA

Product spec.	Alkali metal oxides content %	Warp & weft density Counts/inch		Yarns used for weaving	Nominal thickness mm	Combustible matter content %	Area weight %	Tensile strength N/inch		Length m
		Warp	Weft	Warp*Weft				Warp	Weft	
106	≤0.8	56.0±2.0	56.0±2.0	D900×D900	0.025±0.007	0.120±0.020	22.0-26.0	≥50	≥50	≥1000
1037	≤0.8	70.0±2.0	72.0±2.0	C1200×C1200	0.020±0.007	0.120±0.020	22.0-26.0	≥50	≥50	≥1000
1067	≤0.8	70.0±2.0	70.0±2.0	D900×D900	0.025±0.007	0.120±0.020	28.0-32.0	≥50	≥50	≥1800
1078	≤0.8	54.0±2.0	54.0±2.0	D450×D450	0.040±0.010	0.100±0.020	46.0-50.0	≥130	≥90	≥1800
1080	≤0.8	60.0±2.0	47.0±2.0	D450×D450	0.040±0.010	0.100±0.020	46.0-50.0	≥130	≥90	≥1800
2112	≤0.8	40.0±2.0	40.0±2.0	E225×E225	0.070±0.010	0.100±0.020	68.0-72.0	≥150	≥150	≥1800
2113	≤0.8	60.0±2.0	56.0±2.0	E225×D450	0.070±0.010	0.100±0.020	76.0-80.0	≥250	≥130	≥1800
2313	≤0.8	60.0±2.0	64.0±2.0	E225×D450	0.075±0.010	0.090±0.015	79.0-83.0	≥250	≥130	≥1800
3313	≤0.8	60.0±2.0	62.0±2.0	DE300×DE300	0.070±0.010	0.090±0.015	79.0-83.0	≥200	≥120	≥1800
2116	≤0.8	60.0±2.0	58.0±2.0	E225×E225	0.085±0.010	0.080±0.015	102.0-106.0	≥250	≥220	≥2000
2165	≤0.8	60.0±2.0	54.0±2.0	E225×G150	0.090±0.015	0.075±0.015	121.5-126.5	≥250	≥300	≥2000
7614	≤0.8	43.0±2.0	32.8±2.0	G150×G75	0.128±0.015	0.075±0.015	145.5-150.5	≥400	≥300	≥2000
1506	≤0.8	47.0±2.0	45.0±2.0	E110×E110	0.135±0.015	0.080±0.015	162.0-168.0	≥400	≥330	≥2000
3340	≤0.8	21.8±2.0	14.0±2.0	G75×2×G37	0.200±0.015	0.075±0.015	190.0-196.0	≥400	≥280	≥2000
7740	≤0.8	36.5±2.0	36.5±2.0	G75×G75	0.155±0.015	0.075±0.015	193.0-199.0	≥600	≥400	≥2000
7628L	≤0.8	44.0±2.0	31.0±2.0	G75×G75	0.175±0.015	0.075±0.015	200.0-206.0	≥400	≥280	≥2000
7628M	≤0.8	44.0±2.0	33.0±2.0	G75×G75	0.177±0.015	0.075±0.015	207.0-213.0	≥400	≥300	≥2000
7628H	≤0.8	44.0±2.0	31.0±2.0	G67×G67	0.185±0.015	0.075±0.015	217.0-223.0	≥500	≥300	≥1800
7642	≤0.8	43.7±2.0	20.3±2.0	G75×G37	0.220±0.015	0.075±0.015	225.0-231.0	≥400	≥300	≥1800
7667	≤0.8	44.0±2.0	36.0±2.0	G67×G67	0.200±0.015	0.075±0.015	232.0-238.0	≥600	≥350	≥1800
7638	≤0.8	44.0±2.0	25.0±2.0	G75×G37	0.235±0.015	0.075±0.015	251.0-259.0	≥600	≥350	≥1800

Notes: Products with a width of 74cm to 132cm can be custom-made to suit specific requirements.

PRODUCT APPLICATION

Product type	Typical application
Facing fabric	Excellent surface performance, suitable for PP sheets and face panels
Fast wet-out fabric	Fast wet out, versatile use
High heat resistant fabric	Panels requiring high heat resistance
Auto panel specific fabric	Auto panels requiring high insulation and safety
High Tg CCL fabric	Excellent thermal stability, suitable for high Tg CCL products

PACKAGING AND STORAGE

The products are mainly packaged in cartons or metal frames. Unless otherwise specified, the products should be stored in a dry, cool and moisture-proof area. The room temperature should be maintained in an appropriate range, preferably between 15°C~35°C. It is best if the product is used within 12 months after the production date. The products should be kept in their original packaging prior to use.

To ensure safety and avoid damage to the products, the pallets should be stacked no more than two layers high. When the pallets are stacked in 2 layers, special care should be taken to correctly and smoothly move the upper pallet.

END-USE MARKET



CONTINUOUS GLASS FIBER YARN

PRODUCT DESCRIPTION

Continuous glass fiber yarn has a diameter of 5 μm ~ 9 μm . The surface of the yarn is coated with a special sizing that renders good integration of the yarn as well as low fuzz during unwinding. The yarn has excellent weaving performance, and can easily be desized after the weaving process. It also has a low decomposition temperature and low residue of the final ash content. The resulting fabric after desizing has a white and flat surface. The electronic yarn is the base material for producing electrical insulation articles. It's an optimal structural material for making copper clad laminates and PCBs.



SPECIFICATION

Yarn diameter (μm)	Letter code	Typical spec.
9	G	G37、G67、G75、G150
7	E	E110、E225
6	DE	DE75、DE300
5	D	D450、D900



TECHNICAL DATA

Starch-type yarn

Low fuzz during unwinding, excellent weaving performance, easy desizing, low decomposition temperature, low residue of the final ash content, white and flat surface of resulting fabric

IPC designation / Typical spec.	Yarn diameter variation %	Linear density variation tex \pm %	Moisture content %	Combustible matter content %
G37	± 10	137.0 \pm 3.0	≤ 0.10	1.10 \pm 0.15
G67	± 10	74.6 \pm 2.5	≤ 0.10	1.10 \pm 0.15
G75	± 10	68.9 \pm 2.5	≤ 0.10	1.10 \pm 0.15
G150	± 10	33.7 \pm 4.0	≤ 0.10	1.05 \pm 0.15
E110	± 10	44.9 \pm 3.0	≤ 0.10	1.20 \pm 0.15
E225	± 10	22.5 \pm 4.0	≤ 0.10	1.15 \pm 0.20
DE75	± 10	68.9 \pm 2.5	≤ 0.10	1.15 \pm 0.20
DE300	± 10	16.9 \pm 5.0	≤ 0.10	1.30 \pm 0.30
D450	± 10	11.2 \pm 5.5	≤ 0.10	1.30 \pm 0.25
D900	± 10	5.6 \pm 5.5	≤ 0.10	1.45 \pm 0.30

REINFORCEMENT YARN

High strength, low fuzz, good compatibility with epoxy and unsaturated polymer resins

IPC designation / Typical spec.	Yarn diameter variation %	Linear density variation tex±%	Moisture content %	Combustible matter content %
768	9±0.9	±6	≤0.10	0.45±0.15

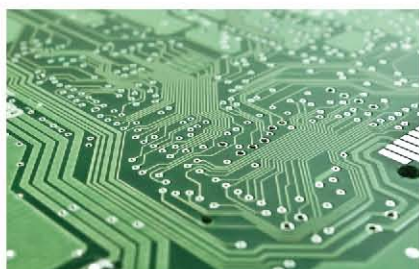
PACKAGING

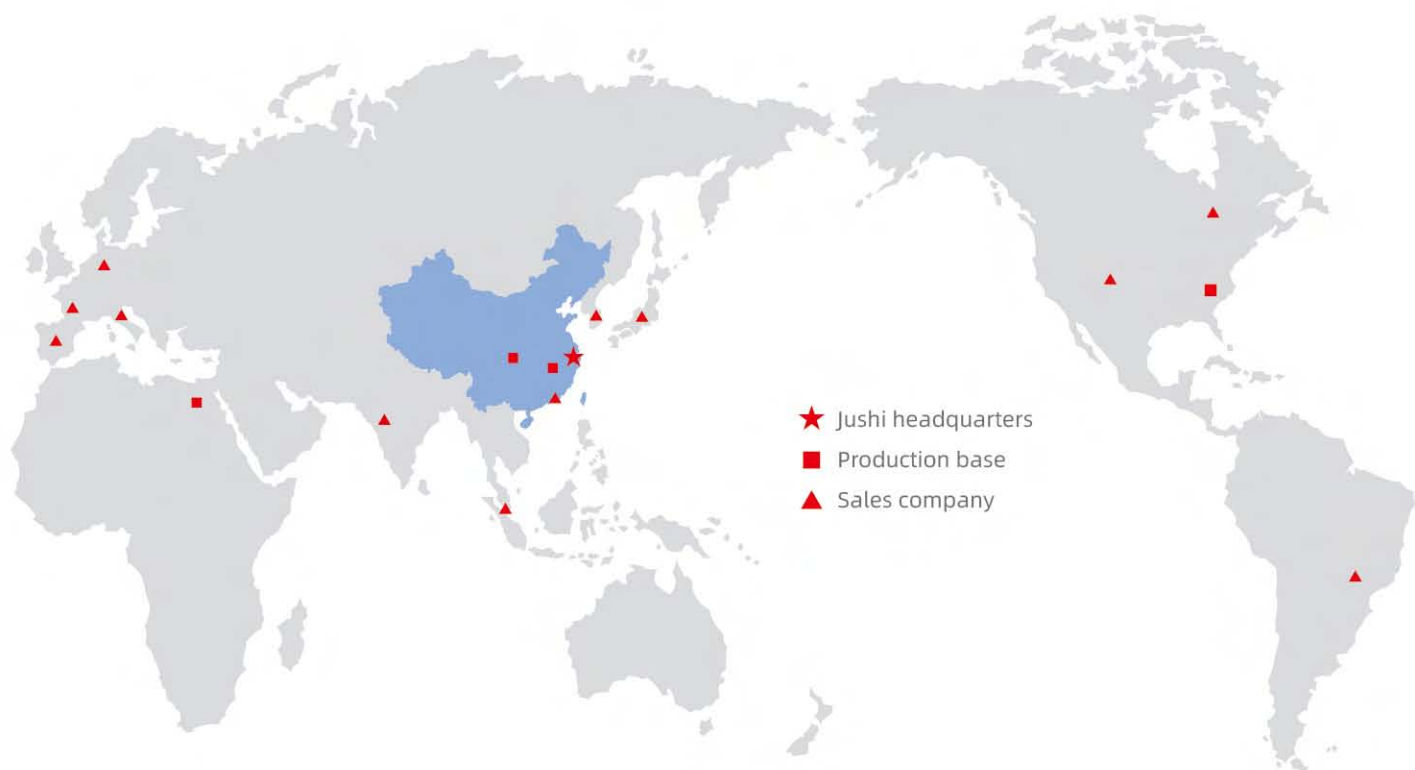
Bobbin	Measuring unit	Bobbin size (H*ID*OD)	Packaging type	Roll per layer	Roll per pallet	Package size (L*W*H)
8KG	US (in.)	17.7x3.3x8	On pallet	25	50	44x44x39.4
	SI (cm)	44.7x8.3x20.2	On pallet	25	50	112x112x100
4KG	US (in.)	14x2.8x5.9	On pallet	49	147	44x44x46
	SI (cm)	35.8x7x15	On pallet	49	147	112x112x117

PACKAGING AND STORAGE

The products are mainly packaged in cartons. Unless otherwise specified, the products should be stored in a dry, cool and moisture-proof area. The room temperature should be maintained in an appropriate range, preferably between 15°C~35°C. It is best if the product is used within 9 months after the production date. The products should be kept in their original packaging prior to use. To ensure safety and avoid damage to the products, the pallets should be stacked no more than two layers high. When the pallets are stacked in 2 layers, special care should be taken to correctly and smoothly move the upper pallet.

END-USE MARKET





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