

Chopped Strand Mat

Our Chopped Strand Mat is fine strand reinforcement material made from E-glass cut fibers laid in a random pattern and bonded with powder or emulsion binder. It is specially designed for hand lay-up and continuous laminating process. It is easy to handle and has excellent moulding performance.

Also, it has rapid resin penetration together with a fast strand wet out time. The mat also brings a highly transparent finished laminates. Also, the fine strand input makes the fiber prominence at the finished laminates surface extremely low. It is an excellent reinforcement material for translucent roofing panel, chemical storage tanks, FRP pipes, boat hulls and decks, truck body panel and so on.



Product Features:

- Excellent weight uniformity
- Fast wet out
- Easy air release
- Excellent transparency of finished products
- Excellent laminate clarity
- Low resin consumption

Technical Specification:

Property	Area Weight (%)	Moisture Content (%)	Binder Content (%)	Tensile Strength (N/150mm)	Width (mm)
TestMethod	ISO3374	ISO3344	ISO1887	ISO3342	ISO 5025
EMC225	± 10.0	≤ 0.20	4.7 ± 0.9	≥ 40	± 5
EMC300	± 10.0	≤ 0.20	4.0 ± 0.9	≥ 60	± 5
EMC450	± 10.0	≤ 0.20	3.7 ± 0.8	≥ 70	± 5
EMC600	± 10.0	≤ 0.20	3.7 ± 0.8	≥ 80	± 5
EMC900	± 10.0	≤ 0.20	3.5 ± 0.8	≥ 90	± 5

Note: It's available with a width range from 50mm-3300mm. Other specifications are also available on customer requests.

Surfacing veil

Surfacing veil is mainly used in the surface layers of FRP products. It is divided into winding S-SM series and hand lay-up S-HM series.

S-SM are mainly used on pipe and tank winding process. It can improve the product surface property on corrosion resistance, compressive strength, seepage resistance, and longer service life.

S-HM is chiefly used in the product with complicated geometric curve. It has the advantages of good pattern fitness, quick resin permeation. It can raise the intensity and corrosion resistance of products.



Product Features:

- Excellent fiber distribution
- Smooth surface appearance of finished products
- Corrosion resistant
- Low binder content
- Good molding properties

Technical Specification

Product code	Glass type	Area weight	Binder content	Tensile MD((N/5cm))	Moisture Content
S-SM 30	C-glass	30g/m ²	6.0	≥ 25	≤ 0.2
S-SM 50	C-glass	50g/m ²	6.0	≥ 40	≤ 0.2
S-HM 30	C-glass	30g/m ²	7.0	≥ 20	≤ 0.2
S-HM 50	C-glass	50g/m ²	6.0	≥ 30	≤ 0.2

- E-glass is also available upon customer's request.



Spray-up Roving

The roving is designed for spraying process. It is treated with silane sizing which is compatible with unsaturated polyester, epoxy, vinyl ester resins. The typically applications include automotive parts, FRP boat hulls, sanitary products, FRP storage tanks, pipes, cooling towers and so on.



Product Features:

- Excellent choppability
- Good moldability
- Easy air release
- Moderate wet-out
- Good fiber dispersion
- Compatibility with multiple resins

Technical Specification

Product code	Type of fiber	Linear density (tex)	Filament diameter (μm)	Compatible resin	Size content (%)
ER-2400-618	E-Glass	2400	13	UP,VE	1.2-1.6
ER-4800-618	E-Glass	4800	13	UP,VE	1.2-1.6





Product Description

- ⊙ E-glass fabrics woven from E-glass direct roving by weaving machines, with plain weave or twill weave.
- ⊙ Applicable for hand lay-up process, mould pressing, machinery formation.
- ⊙ Compatible with unsaturated polyester (UP) resin, epoxy resin (EP) and thermoplastic resin for production of vessels, boat hulls, automobile parts, large plank, etc.

Characteristics

- ⊙ Thickness steady, and free of contamination
- ⊙ Fast wet out
- ⊙ Excellent drape-ability and air-releasing ability, good processibility
- ⊙ High laminate strength, and low strength loss in high humidity
- ⊙ Good mechanical properties

Technical Data

Product Code	Width /mm	Unit Weight g/m ²	Moisture Content %	Loss on Ignition %	Remark
EWR Series	50-3400	150-1500	≤0.10	≤0.70	Max. diameter up to 500mm

NOTES: 1 Individualized specification is available as per customer's request. 2, This datasheet hereinabove is provided for information purposes only and CTG reserves the right to modify it without prior notice.

Packaging

CTG E-glass woven roving is packed and sealed in PE bags by roll, put into cartons or wrapped with kraft paper, and put flat on pallets or in bulk package. And pallets should not be stacked more than 2 layers.

Storage

This product should be stored in a dry, cool and rainproof place, with temperatures from 5°C to 35°C and humidity between 35% and 65%. It is recommended to be put under room temperature for over 24 hours prior to use, finished within 18 months after receipt by customer and kept in intact package when it is not used to avoid damp.

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