



INNOVATIONS FOR LIVING™

## PRODUCT INFORMATION

# E-CSM

## Light Weight Chopped Strand Mat for Hand-Lay Up

### PRODUCT DESCRIPTION

E-CSM is made from E-glass low size chopped strands held together by an emulsion binder which makes it perfectly suitable for use with polyester resins.

The basic strand has a sizing system containing a silane coupling agent.



### PRODUCT REFERENCE

Example :E-CSM 100-130 1ST

E-CSM :OCV Reinforcements™ code for this chopped strand mat

100 :roll weight (g/m<sup>2</sup>)

130 :roll width (cm)

1ST :number of trimmed edges (zero, one or two)

### FEATURES AND PRODUCT BENEFITS

- Very high smoothness of the laminate surface
- Good drapability
- Good compatibility with vinylester and epoxy resins.
- Highly suitable for good surface appearance
- Highly suitable for first layer with gel coat

### TECHNICAL CHARACTERISTICS (nominal values)

WEIGHT (G/M <sup>2</sup> )	LOSS ON IGNITION (%)	MOISTURE (%)
ISO 1889	ISO 1887	ISO 3344
100 ± 10%	5,4 ± 25%	0.3
150 ± 10%	4,8 ± 25%	
200 ± 10%	4,5 ± 25%	

Specifications on average values.

### VISUAL CHARACTERISTICS or POSSIBLE DEFECTS

All the visible defects of the chopped strand mat are classified as visual defects. The maximum number of visual defects allowed for a 100m<sup>2</sup> roll is 10. Possible defects are:

- Unbound edges
- Holes (> 40mm) or tears
- Dirt spots (greater than 5mm)
- Unopened strands
- Accumulation of fibers (>40mm) or binder (>20mm)

# E-CSM

## Light Weight Chopped Strand Mat for Hand-Lay Up

### PRODUCT AVAILABILITY

STANDARD WEIGHT (G/M <sup>2</sup> )	STANDARD WIDTH (CM)	DIAMETER (CM)	ROLL WEIGHT (KG)	PALLET WEIGHT (KG)
100	130	28	26	416
150			29	468
200			41	655

A roll is considered to be complete if it measures more than 70% of the nominal length.

### PACKAGING

- Each roll is wound up on a cardboard tube (internal diameter 101 mm) and packaged in an individual cardboard box. Box length is approximately equal to the width of the mat.
- Standard palletisation versions
  - Sixteen vertical rolls per 114 x 114cm pallet and
  - Twelve horizontal rolls per 114 x 135cm pallet
- In each case the boxes are protected by shrinkwrap polythene and secured using polyamide straps
- In order to maintain appropriate inventory control we are obliged to supply these palletisation versions in approximately 1 : 1 ratio.

### LABELING

Each pallet has two identification labels detailing the product reference, the net and gross weights in Kg, packaging and product code, identification code of the palletized unit, production date.

### STORAGE

The mat should be stored in its original packaging in a dry and cool place. Best conditions are at temperature from 10 to 35°C and humidity between 35 and 85 %. If you store the product at lower temperatures, please move the soon to be processed pallets to the production area 24 hours ahead of time; remove part of the protective cover of each roll to prevent condensation. You can stock pallets one on one with a plywood plank in between the two.



INNOVATIONS FOR LIVING™  
OWENS CORNING  
COMPOSITE MATERIALS, LLC  
ONE OWENS CORNING PARKWAY  
TOLEDO, OHIO 43659  
1.800.GET.PINK™  
www.owenscorning.com  
composites.owenscorning.com

EUROPEAN OWENS CORNING  
FIBERGLAS, SPRL.  
166, CHAUSSÉE DE LA HULPE  
B-1170 BRUSSELS  
BELGIUM  
+32 2 674 8211

OWENS CORNING  
COMPOSITE SOLUTIONS BUSINESS  
ASIA PACIFIC REGIONAL HEADQUARTERS  
UNIT 01,02,05,39/F, PUDONG KERRY  
PARKSIDE,  
1155 FANG DIAN ROAD, PUDONG,  
SHANGHAI  
201204, CHINA  
+86-21-6101 9666

ChoppedStrandMats.ocvamericas@owenscorning.com ChoppedStrandMats.ocvemea@owenscorning.com ChoppedStrandMats.ocvap@owenscorning.com

This information and data contained herein is offered solely as a guide in the selection of a reinforcement. The information contained in this publication is based on actual laboratory data and field test experience. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any responsibility or liability arising out of its use or performance. The user agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production. It is important for the user to determine the properties of its own commercial compounds when using this or any other reinforcement. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Statements in this publication shall not be construed as representations or warranties or as inducements to infringe any patent or violate any law safety code or insurance regulation.

Pub.No. 10017828 - Owens Corning reserves the right to modify this document without prior notice. © 2012 Owens Corning - All right reserved.

ChoppedStrandMats\_E\_CSM\_emea\_08\_2012\_Rev0