E-CR glass

3B E-CR glass is boron-free and presents significantly improved corrosion resistance across a wide range of aggressive environments.

3B glass is E-CR according to ASTM D578 and ISO 2078. This translates into important benefits for end-users over traditional E-glass: longer service life, larger safety coefficients for the same design, and material savings.

Traditional E-glass includes boron and often contains added fluorides. By using new manufacturing technology to eliminate these components from the glass composition, 3B E-CR glass has become a benchmark for integrated pollution prevention and the highest energy efficiency – all in an optimized process.

3B measures its efforts and works continually to minimize its impact on the environment and to set new standards within the global fibreglass industry. This is our commitment.

**Product Description**

3B Chopped Strand Mat (CSM) is a non-woven mat made from 3B E-CR glass filaments, consisting of chopped fibres randomly and yet evenly orientated. The 50 mm length chopped fibres are coated with silane coupling agent and are held together using emulsion binder.

CSM is particularly suitable for hand lay-up process using thermoset resin systems to manufacture wide range of products for automobile, recreation, chemical, electrical industries.

CSM EM1011 conforms to BS 14118 and IS 11551.

3B Chopped Strand Mat is approved by:
- Lloyd’s Register of Shipping
- Det Norske Veritas
- American Bureau of Shipping
- Germannisher Lloyd
- Indian Register of Shipping

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
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<tbody>
<tr>
<td>Polyester, Vinylester and Epoxies compatible</td>
<td>Maximum flexibility on workshops with minimum inventory</td>
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<tr>
<td>Rapid resin impregnation</td>
<td>High productivity</td>
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<tr>
<td>Easy air removal</td>
<td>Good laminate surface</td>
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<tr>
<td>Excellent styrene solubility of binder</td>
<td>Fast wet-through and wet-out</td>
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<td>Less resin pick-up</td>
<td>Cost savings</td>
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<tr>
<td>Excellent drapability</td>
<td>Suits easily the surface of intricate moulds</td>
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<tr>
<td>Excellent integrity of Mat</td>
<td>Easy handling and better appearance of finished product</td>
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**EM1011**
Chopped Strand Mat (Emulsion) for UP, VE, EP

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**PRODUCT CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Density/GSM gm/sqm</th>
<th>Width cm</th>
<th>Roll weight kg</th>
<th>Solid content %</th>
<th>Moisture content %</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>50/100/125</td>
<td>30-40</td>
<td>5</td>
<td>Max 0,2</td>
</tr>
<tr>
<td>450</td>
<td>50/100/125</td>
<td>30-40</td>
<td>4.5</td>
<td>Max 0,2</td>
</tr>
<tr>
<td>600</td>
<td>50/100/125</td>
<td>30-40</td>
<td>4.5</td>
<td>Max 0,2</td>
</tr>
</tbody>
</table>

(1) 50 cm & 100 cm width - excluding Europe
(2) other densities available upon request
(3) other widths available upon request

**PACKAGING**

The 3B Chopped Strand Mat is wound on a hard carton tube equivalent to length of mat with an inside hole of 76mm and an external diameter of 82mm. A roll is wrapped in polyethylene and packed in corrugated cartons (27cm x 27cm) having standard length. A typical pallet of 110cm x 110cm contains 16 cartons placed on pallet and stretch wrapped with plastic film for protection. Mat is one/both side trimmed.

Each roll is identified by label. Each pallet is identified by minimum one pallet label including pallet weight.

**STORAGE**

Storage vertically in a cool and dry warehouse into the original packaging is formally recommended. More precisely ideal storage conditions are a temperature between 15°C & 35°C and a relative humidity comprised between 35% & 75%. If these conditions are maintained, the glass fibre product should not undergo significant changes when stored for extended periods of time. It is also strongly recommended to condition it in the workshop for at least 24 hours before use to prevent condensation. For an optimal processing we recommend to use the product in ambient conditions (20°C-30°C and a relative humidity of 60%-65%).

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