



Advantex® Boron-Free E-CR Glass Reinforcement Specification

Advantex® glass is available in a full line of products for every type of composite application designed to face corrosive environments. As an engineer or end-user, specifying Advantex® glass ensures that you are specifying the highest quality composite applications ready to face the harshest environments. Specify Advantex® glass when corrosion failure is not an option.

A proven product introduced to the market in the 1990s, **Advantex® glass offers the unique attributes of being both a boron-free E-glass and an E-CR glass reinforcement in accordance with ASTM D578 and ISO 2078.**

ASTM D 578-00 section 4.2.4 uses the nomenclature E-CR glass for boron-free modified E-glass compositions for improved resistance to corrosion by most acids. ISO 2078 recommends in section 4.1.1 the use of E-CR glass for acid environments and E-glass only for general purposes.



Boron-Free



E-CR : Recommended for use in acidic environments

SPECIFYING ADVANTEX® E-CR GLASS

Specifying the best type of glass fiber reinforcements for FRP applications that will be used in corrosive environments takes the risk out. Recommended specification for glass fiber type:

“Glass fiber reinforcements shall be Advantex® glass or E-CR glass equivalent meeting ASTM D 578-00 section 4.2.4 standards. This glass will have sizing compatible with the resin specified.”

Specifying Advantex® glass, an E-CR glass in accordance with ASTM D 578-00, and using the recommendation of ISO 2078 throughout the entire FRP application where glass fiber is being used (from the corrosion barrier through the structural portion), will ensure the best protection against failure.

ADVANTEX® E-CR GLASS PRODUCTS OFFERED

Owens Corning OCV™ businesses offer all product types necessary to make a complete FRP application out of high quality E-CR glass. Products Include:

- Direct Roving (single-end or Type 30® roving)
- Assembled Roving (spray-up, chop, SMC)
- Chopped Strand Mat (CSM)
- Continuous Filament Mat (CFM) – Unifilo® mat
- Non-Woven Veil
- Technical Fabrics

Advantex[®] Boron-Free E-CR Glass Reinforcement Specification

Markets Where Advantex[®] Glass Reinforced Composites Provide Better Performance vs. Traditional Materials

- **Oil and Gas**
- **Power Plants**
- **Mining**
- **Industrial**
- **Water/Sewage**
- **Marine**
- **Tidal and sea wave energy**



TAKE RISK OUT – PUT ADVANTEX[®] GLASS IN

For more information, visit www.owenscorning.com/composites/aboutAdvantex.asp

THE OCV[™] BUSINESSES ARE WORLDWIDE SUPPLIERS

Supporting our customers with the entire Advantex[®] reinforcement product range including glass fiber, technical fabrics and specialty glass.

Most OCV[™] products are manufactured with Advantex[®] glass today. Ongoing conversion programs are underway in Europe, Asia Pacific and Latin America manufacturing plants while North America plants are already converted 100% to Advantex[®] glass.

Contact

Advantex.americas@owenscorning.com

North America: +1 614 507 5828

Latin America: +55 19 3535 9316

Advantex.europe@owenscorning.com

Advantex.asiap@owenscorning.com

India: +91 22 6668 1717

S. Korea: +82-54-429-5782

China: +86 571 88130808 - EXT. 5682

Japan: +81 280 92 6049



**OWENS CORNING
COMPOSITE MATERIALS, LLC**
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO 43659
1.800.GET.PINK[™]
www.owenscorning.com
www.ocvreinforcements.com

**EUROPEAN OWENS CORNING
FIBERGLAS, SPRL.**
166, CHAUSSÉE DE LA HULPE
B-1170 BRUSSELS
BELGIUM
+32.2.674.82.11

**OWENS CORNING – OCV ASIA PACIFIC
SHANGHAI REGIONAL HEADQUARTERS**
OLIVE L.V.O. MANSION, 2ND FLOOR
620 HUASHAN ROAD
SHANGHAI 200040
CHINA
+86.21.62489922

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. Number# 10012616. Owens Corning reserves the right to modify this document without prior notice. © 2010 Owens Corning.

Advantex_ECR_glass_Specification_ww_201004_Rev1