



INNOVATIONS FOR LIVING™

## Advantex® 无硼 E-CR 玻纤增强材料属性

### 简介

Advantex®玻纤产品种类齐全，可用于生产在各种腐蚀性环境中工作的复合材料。作为一名工程师、最终用户或制造商，选用 Advantex®玻纤产品，确保您将在最恶劣的环境中实现最高质量的应用。如果您的应用不允许在腐蚀环境中发生故障或失效，请务必选用 Advantex®玻纤。

自 20 世纪 90 年代推出至今，久经考验的 Advantex®玻纤材料已被证明为集无碱玻璃和 E-CR 玻璃的优良属性于一身，性能卓越，完全符合 ASTM D578 和 ISO 2078 的标准。

ASTM D 578-00

无硼改性的 E-玻璃

ISO 2078

建议在酸性环境中选用 E-CR

### Advantex® 玻纤材料属性

Advantex®玻纤材料采用专利无硼玻璃配方，在腐蚀性环境的应用中呈现卓越性能。

属性	单位	测试方法	Advantex®
单丝拉伸强度	MPa	ASTM D2101	3,100 - 3,800
单丝拉伸强度	Kpsi	ASTM D2101	450 - 550
杨氏弹性模量	GPa	声波测试	80 - 81
杨氏弹性模量	Mpsi		11.6 - 11.8
纤维密度	g/cc	ASTM D1505	2.62
软化点	°C	ASTM C338	916
退火点	°C	平行板粘度法	736
折射率		油浸	1.560 - 1.562
电介质强度	kV/cm	ASTM D149	100 - 106
100kHz & 23 °C 时的介电常数	kV/cm	ASTM D150	7.2
100kHz & 250 °C 时的介电常数	kV/cm	ASTM D150	7.5

### Advantex®无硼 E-CR 玻璃产品系列:

欧文斯科宁复合材料业务部门能提供适合各种 FRP 应用的种类齐全的优质无硼无碱玻纤增强材料，其中包括:

- 直接纱 (单股或 Type 30™ 纱线)
- 合股无捻粗纱 (喷射纱、短切纱、SMC 纱)
- 短切毡 (CSM)
- 连续毡 (CFM) – Unifilo® 毡
- 无纺薄毡
- 技术织物

# Advantex® 无硼 E-CR 玻纤增强材料属性

与传统材料相比，Advantex®玻纤复合材料在以下应用领域呈现出更优异的性能

- 石油和天然气
- 电厂
- 矿业
- 工业
- 水/污水处理
- 船舶
- 潮汐和海浪能



**TAKE RISK OUT – PUT ADVANTEX® GLASS IN**

欲获更多详情，敬请访问 [composites.owenscorning.com/aboutAdvantex.aspx?lg=zh&](http://composites.owenscorning.com/aboutAdvantex.aspx?lg=zh&)

欧文斯科宁业务遍布全球

用完整的Advantex®产品系列支持客户的各种应用需求，产品包括玻纤材料、技术织物和特种产品等。

如今，大多数欧文斯科宁产品都采用了Advantex®玻纤配方。欧洲、亚太和拉美的制造工厂正在逐步转向Advantex®玻纤材料，而北美的工厂则已经100%采用Advantex®玻纤配方。

## 联系方式

[Advantex.americas@owenscorning.com](mailto:Advantex.americas@owenscorning.com)

北美: +1 614 507 5828

拉美: +55 19 3535 9316

[Advantex.europe@owenscorning.com](mailto:Advantex.europe@owenscorning.com)

[Advantex.asiap@owenscorning.com](mailto:Advantex.asiap@owenscorning.com)

印度: +91 22 6668 1717

韩国: +82-54-429-5782

中国: +86 571 88130808 – 5682 分机

日本: +81 280 92 6049



INNOVATIONS FOR LIVING™  
OWENS CORNING  
COMPOSITE MATERIALS, LLC  
ONE OWENS CORNING PARKWAY  
TOLEDO, OHIO 43659  
1.800.GET.PINK™  
[www.owenscorning.com](http://www.owenscorning.com)  
[www.ocvreinforcements.com](http://www.ocvreinforcements.com)

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

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

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