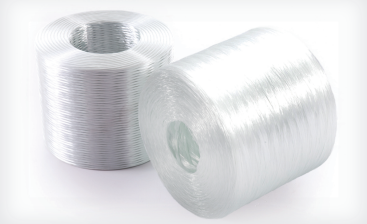
E6 310H

拉挤&缠绕用直接/合股无捻粗纱
Roving for Pultrusion & Filament Winding

产品说明 Product Description

310H 产品采用高性能 E6 玻璃制备而成，表面涂覆硅烷基浸润剂，专为增强环氧树脂设计，可生产直接纱和合股纱产品，适用于拉挤成型工艺和缠绕成型工艺生产电绝缘芯棒、电绝缘套管等玻璃钢制品。

310H 产品与环氧树脂复合后，浸透快速完全，其制品具有力学强度高、电绝缘性能好、耐化学腐蚀等优点，被广泛应用于特高压和超高压输电、变电等领域。



310H Direct Roving or Assembled Roving is produced by using E6 glass formulation and coated with a silane-based sizing. It is specially designed for the reinforcement of epoxy resin.It is designed for filament winding and pultrusion applications and suitable for use in insulation rods and insulating pipe.

310H offers a fast and complete wet-out of resin. The composites it reinforces have excellent mechanical, electrical insulation and acid corrosion resistance properties. It is suitable for use in UHV and EHV power transmission, transformation and other fields.

产品特点 Product Features

◎ 优良的成带性，毛羽少
◎ 与环氧树脂结合性好，浸透快速与完全
◎ 制品的力学性能高
◎ 制品电绝缘性优异，符合：IEC 62217：2005标准
◎ 优异的耐酸腐蚀性

·Good ribbonization and low fuzz
·Good bonding with epoxy resin and fast and complete wet-out
·Excellent mechanical properties of finished composite articles
·Excellent electrical properties，comply with IEC 62217:2005
·Excellent acid corrosion resistance

规格代号 Specification

玻璃类型 *Glass type*	*E6*
浸润剂类型 *Sizing type*	硅烷 *Silane*
典型纤维直径 *Typical filament diameter (μm)*	*17、24*
典型线密度 *Typical linear density (tex)*	*1200、2400、9600、19200*
示例（直接纱） *Example (Direct Roving)*	*E6DR24-2400-310H*
示例（合股纱） *Example (Assembled Roving)*	*E6R-19200-310H*

技术指标 Technical Parameters

项目 *Item*	线密度偏差 *Linear density variation (%)*	含水率 *Moisture content (%)*	可燃物含量 *Sizing content (%)*	断裂强度 *Breakage strength (N/tex)*
检测方法 *Test method*	*ISO 1889*	*ISO 3344*	*ISO 1887*	*ISO 3341*
指标 *Standard range*	*± 5 (直接纱Direct Roving < 600 tex)* *± 4 (直接纱Direct Roving ≥ 600 tex)* *± 4 (合股纱Assembled Roving)*	*≤ 0.07*	*0.55 ± 0.10*	*≥ 0.40 (< 4800 tex)* *≥ 0.30 (≥ 4800 tex)*
行业要求或国标 *Industry requirement or NS*	*± 5*	*≤ 0.15*	*± 0.2*	*≥ 0.35 (< 4800 tex)* *≥ 0.30 (≥ 4800 tex)*

机械性能 Mechanical Properties

机械性能 *Mechanical properties*	单位 *Unit*	实验值 *Value*	树脂 *Resin*	测试方法 *Test method*
拉伸强度 *Tensile strength*	*MPa*	*2316*	*EP*	*ASTM D2343*
拉伸模量 *Tensile modulus*	*GPa*	*81.2*	*EP*	*ASTM D2343*

以上数据为实验室针对E6DR24-2400-310H产品的具体实验值，仅供参考。
The above data are actual experimental values for E6DR24-2400-310H and to be used for reference only.

使用说明 *Instructions*

◎ 本产品在12个月内使用最佳，使用前应保存在原包装内。
◎ 产品使用时注意防护，避免产品擦毛、损伤等情况。
◎ 使用前调理纱线的温湿度与环境温湿度平衡，使用时对环境温湿度进行适当控制。
◎ 使用时请合理控制张力并保证张力均匀性。

·The product is best used within 12 months after production, and should be kept in the original package before use.
·Care should be taken when using the product to prevent it from being scratched or damaged.
·The temperature and humidity of the product should be conditioned to be close or equal to the ambient temperature and humidity before use, and the ambient temperature and humidity should be properly controlled during the use.
·When using the product, please control the tension properly and ensure the tension uniformity.

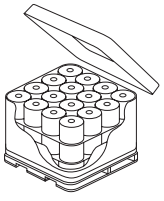
包装信息 *Packaging*

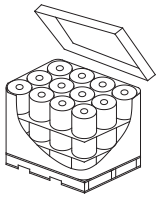
项目*Item*	单位*unit*	指标*Standard*					
典型包装方式 *Typical packaging method*	/	采用托盘包装 *Packed on pallets.*					
类型 *Type*	/	直接纱 *Direct Rovings*				合股纱 *Assembled Rovings*	
典型纱团高度 *Typical package height*	*mm (in)*	*260 (10.2)*				*260 (10.2)*	
纱团内径 *Package inner diameter*	*mm (in)*	*160 (6.3)*				*100 (3.9)*	
典型纱团外径 *Typical package outer diameter*	*mm (in)*	*280 (11.0)*		*310 (12.2)*		*310 (12.2)*	
典型纱团重量 *Typical package weight*	*kg (lb)*	*15.6 (34.4)*		*22 (48.5)*		*21 (46.3)*	
层数 *Number of layers*	层 *(layer)*	*3*	*4*	*3*	*4*	*3*	*4*
每层纱团个数 *Number of packages per layer*	个 *(pcs)*	*16*		*12*		*16*	
每托纱团个数 *Number of packages per pallet*	个 *(pcs)*	*48*	*64*	*36*	*48*	*48*	*64*
每托重量 *Net weight per pallet*	*kg (lb)*	*748.8 (1650.2)*	*998.4 (2201.1)*	*792 (1746.1)*	*1056 (2328.1)*	*1008 (2222.2)*	*1344 (2963.0)*
托盘长度 *Pallet length*	*mm (in)*	*1140 (44.9)*		*1270 (50.0)*		*1140 (44.9)*	
托盘宽度 *Pallet width*	*mm (in)*	*1140 (44.9)*		*960 (37.8)*		*1140 (44.9)*	
托盘高度 *Pallet height*	*mm (in)*	*940 (37.0)*	*1200 (47.2)*	*940 (37.0)*	*1200 (47.2)*	*940 (37.0)*	*1200 (47.2)*

贮 存 *Storage*

在没有特殊要求的情况下，玻璃纤维产品应贮存在干燥、阴凉的地方，防止受潮。最佳存储条件为温度 -10℃ ~ 35℃, 相对湿度≤80%。为确保安全，避免损坏产品，托盘的堆码高度不应超过三层。当堆放两层或三层高时，要求正确地、平稳地移动上面的托盘。

Unless otherwise specified, the fiberglass products should be stored in a dry,cool and moisture proof area.The best temperature and humidity should be maintained at -10℃~35℃ and ≤80% respectively. To ensure safety and avoid damage to the product, the pallets should be stacked not more than three layers high. When the pallets are stacked in two or three layers, special care should be taken to correctly and smoothly move the upper pallet.





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