320

编制用直接无捻粗纱
Direct Roving for Weaving

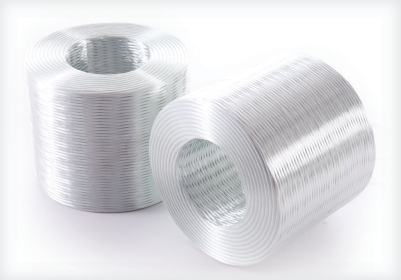
产品说明 *Product Description*

320 是直接无捻粗纱，表面涂覆硅烷基浸润剂，适用于增强不饱和聚酯树脂、乙烯基树脂。主要用于编织工艺。

320 无捻粗纱及其织物广泛用于风能、造船、化工等行业，适用于风力叶片、压力容器、格栅、游艇等制造。

320 Direct Roving is coated with a silane-based sizing to reinforce unsaturated polyester resin and vinyl resin. It is mainly used in the weaving process.

320 Direct Roving and its fabrics are widely used in wind energy, shipbuilding, chemical engineering and other fields to make wind blades, pressure vessels, grids, yachts, and so forth.



产品特点 *Product Features*

◎ 纺织工艺性能优良
◎ 纱团间转换顺畅、浸透快速而完全
◎ 毛羽少
◎ 制品机械性能高

·Excellent weavability
·Smooth transition between roving packages, fast and complete wet out
· Low fuzz
·Good mechanical properties of parts

规格代号 *Specification*

玻璃类型 *Glass type*	*E*			
浸润剂类型 *Sizing type*	硅烷 *Silane*			
典型纤维直径 *Typical filament diameter (μm)*	*17*	*20*	*22*	*24*
典型线密度 *Typical linear density (tex)*	*600 1200 2400*	*1460 1500 1530*	*2200*	*4800*
示例 *Example*	*EDR17-2400-320*			

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*	*< 600 tex: ± 5* *≥ 600 tex: ± 4*	*≤ 0.07*	*0.45 ~ 0.70*	*≥ 0.42*

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 menthod*
拉伸强度 *Tensile strength*	*MPa*	*2315.3 / 2488.4*	*UP / EP*	*ASTM D2343*
拉伸模量 *Tensile modulus*	*GPa*	*82.5 / 82.8*	*UP / EP*	*ASTM D2343*

以上数据为实验室针对EDR17-2400-320产品的具体实验值，仅供参考。
The above data are actual experimental values for EDR17-2400-320 and to be used for reference only.

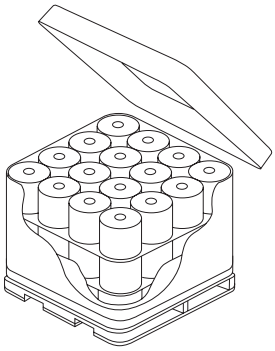
使用说明 *Instructions*

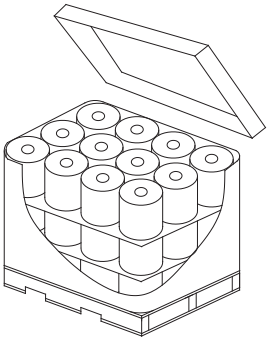
◎ 本产品在12个月内使用最佳，使用前应保存在原包装内。
◎ 产品使用时注意防护，避免产品擦毛、损伤等情况。
◎ 使用前调理纱线的温湿度与环境温湿度平衡，使用时对环境温湿度进行适当控制。

·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.

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.			
典型纱团高度 Typical package height	mm (in)	260 (10.2)			
纱团内径 Package inner diameter	mm (in)	160 (6.3)			
典型纱团外径 Typical package outer diameter	mm (in)	280 (11.0)		310 (12.2)	
典型纱团重量 Typical package weight	kg (lb)	17.0 (37.5)		22 (48.5)	
层数 Number of layers	层 (layer)	3	4	3	4
每层纱团个数 Number of packages per layer	个 (pcs)	16		12	
每托纱团个数 Number of packages per pallet	个 (pcs)	48	64	36	48
每托重量 Net weight per pallet	kg (lb)	816 (1799.0)	1088 (2398.6)	792 (1746.1)	1056 (2328.1)
托盘长度 Pallet length	mm (in)	1140 (44.9)		1270 (50.0)	
托盘宽度 Pallet width	mm (in)	1140 (44.9)		960 (37.8)	
托盘高度 Pallet height	mm (in)	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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