



## Product Description

### ZeroTwist TD22

from VETROTEX is produced with a starch free sizing system, containing silane bonding agents, providing excellent compatibility with different resins like epoxy, polyester, phenolics or vinyl ester. Glass filament strands sized with TD22 have excellent textile properties, enabling the production of different textile structures like e.g. woven fabrics, warp-knitted fabrics, narrow fabric (tapes) and multi-axial or unidirectional fabrics. These products can be used in composite applications without any heat cleaning and further sizing.

## Main Advantages

- Splice free single end roving, free of catenary; the integrity is given by the size.
- Low abrasion and fuzz level
- Good weaving properties in both, warp (machine) and fill (crosswise) direction.
- Easy to impregnate due to lack of twist
- Good fabric coverage
- Enables the production of thin and light weight fabrics for composite applications

## Transport packaging

Each pallet is been wrapped in a stretch foil and protected by a wooden frame, fixed with fastening straps.



## Packaging Information

- ZTW 10 kg (22.05 lbs) packages**
- 88 packages per pallet (8 layers)
  - Each single ZTW-package is wrapped in a PET-stretch foil.

**Pallet dimensions:**

- 130 cm x 100 cm x 117,4 cm  
(51.18 in. x 39.37 in. x 46.22 in.)

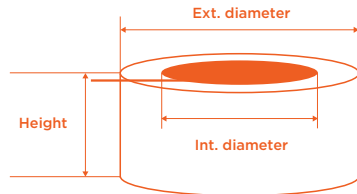
**Max. net weight per pallet:**

- 880 kg (1940 lbs)



## Product Information

Product Range				
S/I units	US units	Package weight	LOI (%)	Sizing type
EC9 68	ECG 75	10 kg (22,05 lbs)	0,70	Silane
EC13 136	ECK 37	10 kg (22,05 lbs)	0,60	Silane
EC16 200	ECM 25	10 kg (22,05 lbs)	0,55	Silane



## Products available

Product Range		Height	External diameter	Internal diameter
S/I units	US units	mm / inches	mm / inches	mm / inches
EC9 - 68 TD22G	ECG 75 TD22G	125 / 4,92	325 / 12.8	207 / 8.15
EC13 - 136 TD22G	ECK 37 TD22G	125 / 4,92	325 / 12.8	207 / 8.15
EC16 - 200 TD22G	ECM 24.8 TD22G	125 / 4,92	325 / 12.8	207 / 8.15

## Storage, Shelf Life, Processing Conditions

The product should be stored in its original packaging in dry conditions away from direct sunbeam. Storage temperatures of between 10 and 35 °C (50 and 95 °F) and a relative humidity between 40% and 70% are recommended. Before processing, the material should be conditioned by exposing it to the processing climate for 24 hours.

Though there are no known storage limitations under proper conditions, we recommend to use the material within 6 months after delivery date, or within 24 months after date of manufacture. In order to reduce the influence of storage conditions, Vetrotex recommends a First-in-First-out-procedure on stocked material.

## Stacking Information

In order to avoid any potential injury or damage, we recommend to not stack any pallets with our ZeroTwist products, neither in transport nor in storage.

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