

# Saint-Gobain Vetrotex size systems description and recommended applications

Size systems	Description	Yarn properties	Observations
<b>T6/ T61</b>	T6 and T61 are a starch /silane /oil-based size systems. Due to its special composition, all glass filament yarns which are sized with T6 or T61C have an high tensile strength	T6 and T61 textile glass filament yarns are exceptionally well suitable for all textile machine processes such as: warping, weaving on rapier and projectile looms, plying, laid scrim machines, winding and /or braiding.	Due to its composition, T6 and T61 are not suitable to the complete heat cleaning process (thermal desizing)
<b>T8</b>	T8 are a starch /oil based size system. T8 sized yarns meet the most stringent quality requirements of the PCB industry	Yarns sized with T8 are suitable for all textile processing procedures such as: beaming, slashing (good compatibility with starch polyvinyl alcohol), weaving on air jet, rapier and projectile looms, Breeding and heat cleaning treatment	Can be thermally heat cleaned with all conventional procedures
<b>T30</b>	T30 are starch oil based sizing systems and were specially designed for high speed air jet weaving machines and applications for which heat cleaning properties are required.	Sizing systems T30 provide the yarns with the optimum mechanical protection required for high speed air jet weaving machines in both directions. The main advantages of the product are: Low level of breaks during beaming and slashing. Excellent compatibility with starch polyvinyl alcohol slashing agent. Regular yarn impregnation and excellent machine efficiency.	The yarns can be thermally heat-cleaned with the usual heat cleaning equipments (one or two steps processes). The fabrics produced with this binder system meet the most stringent quality requirements for the printed circuit boards, especially for the quality of surface.
<b>TD22</b>	TD22 is a starch-free plastic sizing containing silane bonding agents guaranteeing an excellent compatibility with the different resin systems (epoxy, phenol and unsaturated polyester).	Glass filament yarns impregnated with TD22G have excellent textile properties which make possible to produce different types of textile structures (glass fabrics, tape fabrics, braided sleeves and multi-axial fabrics, warp knitted fabrics, etc..) for use in composites without the need for thermal desizing.	Weaver's beams made with direct sizing systems don't need to be slashed.
<b>TD52</b>	TD52 sizing system is special designed to provide excellent compatibility with PVC plastisols	High tensile strength, very low fuzz generation during the unwinding process through the die used to form a round cross section and calibrate the PVC coating. 5251M include a silane in order to increase the wet-ability properties and micro crystalline par-	Used for VCY, but also for the polyurethane coated yarn

		affin wax with an higher melting point in comparison with T17G	
<b>T17/T18</b>	T17/T18 size is a starch /oil–based size system with a matched lubricating system for the texturizing process	T17/T18 has a little amount of paraffin wax but don't include any silane T17G size provides the yarn with the optimum protection required for the texturizing process.	Can be thermally heat cleaned with all conventional procedures
<b>Turbofil K248</b>	Turbofil products are produced by blowing a stream of air in continuous filament yarn while it is being delivered at a higher rate than being taken by the winding process. The Saint-Gobain Vetrotex texturizing effect is optimal fixed in order to allow beaming, weaving and finishing treatments.	Turbofil products have <ul style="list-style-type: none"> <li>- excellent weaving properties on rapier and air jet loom in both, warp and weft direction</li> <li>- a maximum texturizing effect uniformity</li> <li>- no weavy effect of filling: the texturizing effect has been adjusted and fixed in order to avoid any weft displacement after weaving</li> <li>- no protruding loops</li> <li>- a smooth woven surface</li> <li>- excellent compatibility with finishing agents</li> <li>- 100% metered packages for wall covering applications</li> </ul>	Turbofil K248 products are mainly used for high quality wall covering fabrics.  They are also ideal for conventional texturized yarn applications like thermal insulation
<b>T10/ 006</b>	T10/006 are glue/tenside /oil/silan – based size systems developed for air-jet texturizing and voluminizing process after strands drying at high temperature All individual filaments are quantitatively divided through an air-jet process and this results in very quick wetting. The yarns are very well compatible with water based polymer systems, all types of resins and bitumen.	T10/006 products have a sufficient tensile strength and they are suitable for weaving and rope braiding.	T10/006 sized yarns are used for:  Civil engineering like <ul style="list-style-type: none"> <li>- fabrics for roofing</li> <li>- wall coverings</li> </ul> Industrial applications like <ul style="list-style-type: none"> <li>- thermal insulation fabrics</li> <li>- ropes (asbestos replacement)</li> </ul>