



ST 2070

Single End Roving Designed for Silentex® Noise Control Solutions

INNOVATIVE SOLUTIONS

The Silentex® noise control solution is a unique system that enables improved durability and acoustic performance while significantly reducing overall system cost.

PRODUCT SOLUTIONS

Advantex® continuous roving is an integral part of the Silentex® system and is designed for high thermal and corrosion resistance. The Advantex® glass composition represents a technological advance in OCV™ Reinforcements' commitment to provide value-added products to our customers. The Silentex® process, combined with Advantex® continuous roving, offers a robust solution to meet demanding acoustic requirements, increasing engine temperatures, reduced weight and volume, reduced back pressure, and lower overall cost of silencers.



PRODUCT DESCRIPTION

The ST2070 product is OCV™ Reinforcements' **24µm 7000 tex** Single End roving based on the Advantex® high temperature composition and is specifically engineered for use in the Silentex® process to minimize process interruptions and ensure overall efficiency.

High density 40kg doffs of ST2070 roving are spliced together in a very precise manner to ensure package transfer that is transparent to the Silentex® process. ST2070 is designed to ensure that the strand consistently texturizes into 5,800 filaments to ensure that each muffler will be filled with continuous fibers, highly effective in attenuating sound and highly resistant to blowout.

FEATURES AND PRODUCTS BENEFITS

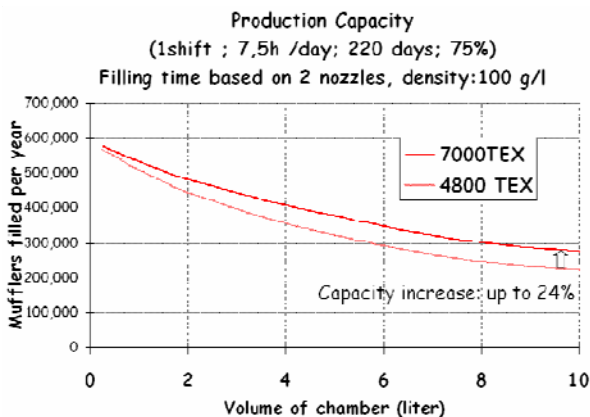
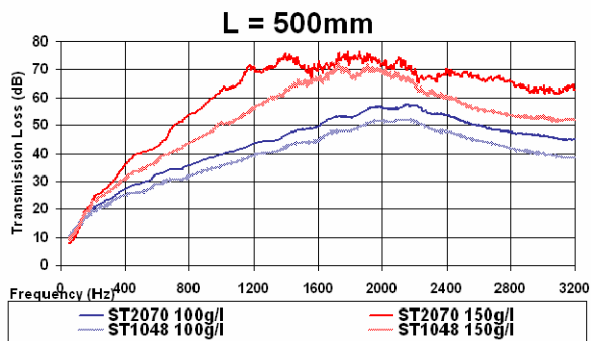
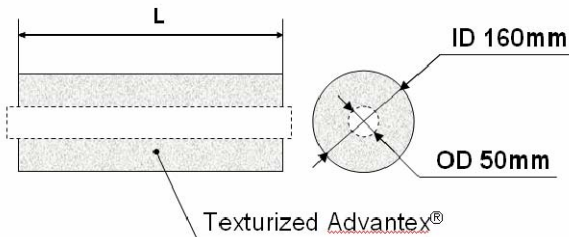
<ul style="list-style-type: none"> Annealing and softening point are over 65°C (117°F) higher than standard E glass 	<ul style="list-style-type: none"> Able to withstand increasing exhaust temperatures Stainless steel wool is not typically required to protect the fiber from the exhaust gas
<ul style="list-style-type: none"> 5 times the fiber strength of basalt wool and over 2 times the fiber strength of E glass needle felts 	<ul style="list-style-type: none"> Fibers will remain continuous and resist blowout in the exhaust
<ul style="list-style-type: none"> Nearly 3 times more resistant to degradation due to corrosive fluids found in typical exhausts than standard E glass 	<ul style="list-style-type: none"> Fiber strength will be retained even under the most corrosive conditions in the exhaust Extremely high process efficiency Typical direct fill rates as fast as 52g/s/nozzle Enabling smoother and more stable process for equal cycle time compared to 4800TEX.
<ul style="list-style-type: none"> High linear density of 7000 tex 	
<ul style="list-style-type: none"> Narrow and consistent fiber diameter distribution Does not contain unfiberized beads like most basalt wool 	<ul style="list-style-type: none"> Consistent acoustic absorption Fibers not respirable into the deep lung Fill density can often be reduced over basalt preforms or needle felt
<ul style="list-style-type: none"> Excellent processability in the Silentex machines 	<ul style="list-style-type: none"> Maintains high production efficiency Excellent strand texturization Minimal fuzz generation
<ul style="list-style-type: none"> Large 40kg doffs with only 17 splices per pallet 	<ul style="list-style-type: none"> Very few doff transfers during filling operations
<ul style="list-style-type: none"> Fairly high package density: approximately 700kg per pallet 	<ul style="list-style-type: none"> Reduces floor space compared to ready texturized materials

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MECHANICAL PROPERTIES

Test muffler scheme



OCV[™] Reinforcements

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PACKAGING

Rovings are available in a single-end internal-pull package. Each pallet weighs approximately 700kg. Pallets are stretch wrapped for load stability. All doffs are wrapped with Tack-Pak[®] or shrinkable film for protection during transport. Full doffs are available in 40 kg (88 lb.) weight and they can be packaged in bulk or Creel-Pak[®] format. More information is available in the Customer Acceptance Standards

STORAGE

Unless otherwise specified, it is recommended to store glass fiber products in a cool, dry area. The packaging is not waterproof. Be sure to protect the product from the weather and other sources of water. The glass fiber products must remain in their original packaging material until the point of usage. If these conditions are maintained, the glass fiber product should not undergo significant changes when stored for one year. Beyond one year after delivery, the product sizing, which impacts processing, may change if the doffs are stored outside the recommended conditions.

The best storage conditions are: temperatures between 20°C and 23°C and humidity between 60% and 65%.

The product should be stored in the workshop, within its original packaging, 48 hours prior to its utilization.