



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.



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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 balls 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 6,000 filaments with practically no fiber damage to ensure that each muffler will be filled with continuous fibers, highly effective in attenuating sound.

FEATURES AND PRODUCTS BENEFITS

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| • Annealing and softening point are over 65°C (117°F) higher than standard E glass | • Able to withstand increasing exhaust temperatures |
| • 5 times the fiber strength of basalt wool and over 2 times the fiber strength of E glass needle felts | • Stainless steel wool is not required to protect the fiber from the exhaust gas |
| • High fiber strength maintained even at glass temperatures exceeding 750°C | • Fibers will remain continuous and resist blowout in the exhaust |
| • Nearly 3 times more resistant to degradation in corrosive fluids than standard E glass | • Fiber will resist degradation under exposure to exhaust gases and continuous vibration within the muffler |
| • High linear density of 7000 tex | • Fiber strength will be retained even under the most corrosive conditions in the exhaust |
| • Narrow and consistent fiber diameter distribution | • Extremely high process efficiency |
| • Does not contain unfiberized beads like most basalt wool | • Direct fill rates as fast as 0.16kg/second |
| • Excellent processability in the Silentex machines | • Consistent acoustic absorption |
| • Large 40kg balls with only 17 splices per pallet | • Fibers not respirable into the deep lung |
| • Extremely high package density at 700kg per pallet | • Fill density can often be reduced by 20-30% over basalt preforms or needle felt |
| | • Maintains high production efficiency |
| | • Excellent strand texturization |
| | • Minimal fuzz generation |
| | • Very few ball transfers during filling operations |
| | • Reduces required floor space |
| | • Typically requires only one pallet per shift |

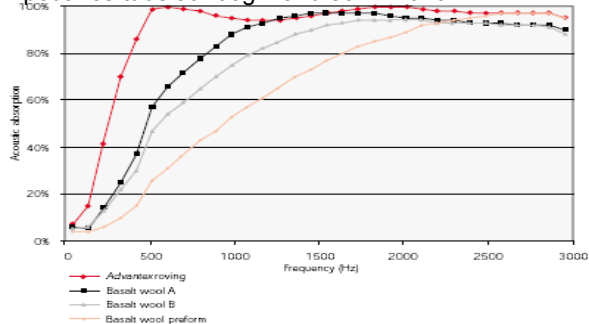
ST 2070

Single End Roving Designed for Silentex[®] Noise Control Solutions

MECHANICAL PROPERTIES

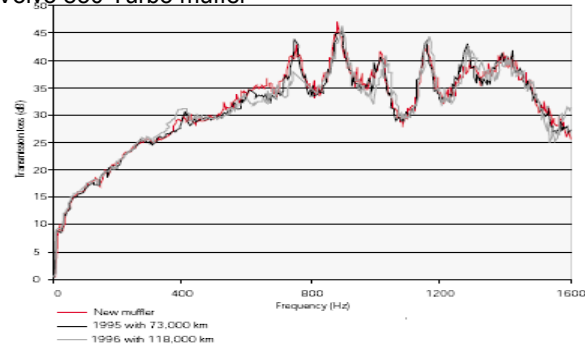
Normal acoustic absorption

Impedance tube at 100g/L and 50 mm thick



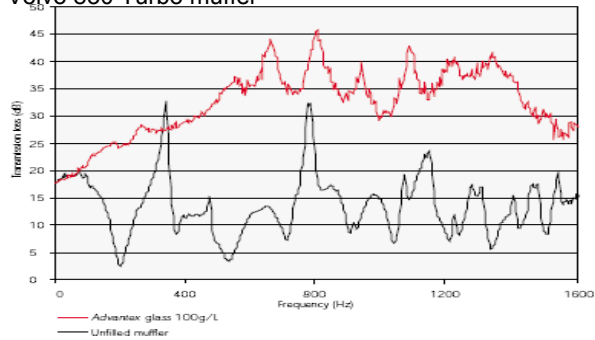
Durability of Advantex in Silentex[®] system

Volvo 850 Turbo muffler



Acoustic performance of Silentex[®] system

Volvo 850 Turbo muffler



OWENS CORNING
COMPOSITE MATERIALS, LLC
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO 43659
1.800.GET.PINK™
www.owenscorning.com
www.ocvreinforcements.com

Contact:

SingleEndRovings.ocvamericas@owenscorning.com

OWENS CORNING
FIBERGLAS, SPRL.
166, CHAUSSEÉ DE LA HULPE
B-1170 BRUSSELS
BELGIUM
+32 267 48211

Contact:

SingleEndRovings.ocvmea@owenscorning.com

OWENS CORNING - OCV ASIA PACIFIC
SHANGHAI REGIONAL HEADQUARTERS
2F OLIVE LVO MANSION 620 HUA SHAN ROAD
SHANGHAI 200040
CHINA
+86 262 489 922

Contact:

SingleEndRovings.ocvap@owenscorning.com

PACKAGING

Rovings are available in a single-end internal-pull package. Each pallet weighed about 1 ton. 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 might evolve, specifically if stored outside the recommended conditions.

The best storage conditions are: temperatures between 22°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.

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