

*The Pros
ask for the best
...and so
should you!*



High Performance Muffler Packing

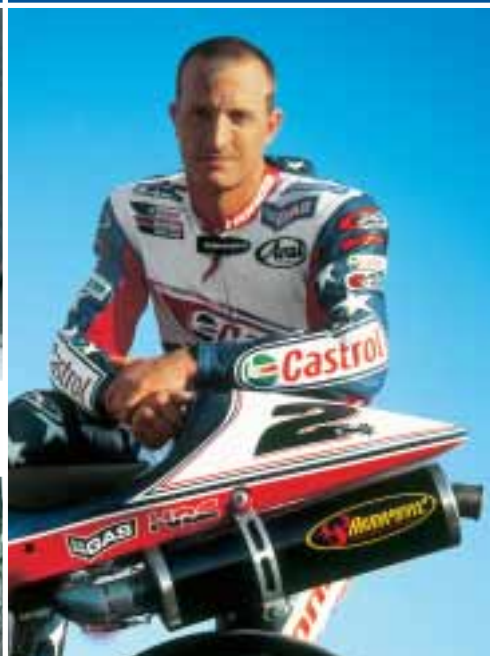
Off-Road



Touring Car



Superbike



...As used by leading Manufacturers and Race Teams worldwide ...



New, advanced Silent Sport™ Premium Product.

- Heat-Resistance increased up to 1300 Degrees/F.
- Overall-Weight of Muffler decreased up to 30%.
- Superior "Loft": Same amount of Silent Sport™ Premium fills nearly twice as much room (space) as, for example: Race Tool's Race Tex. (see: www.silentsport.com, "english", "Why Silent Sport PREMIUM")
- Supreme sound – dampening properties.
- Maximum durability of the packing.
- Highest resistance against exhaust gas contamination.
- By far the best and longest lasting sound – absorption material on today's market!

Silent Sport™ Premium
is Made in Germany by:



Content: 250 gm 450 gm

Muffler Repacking and Maintenance

Muffler packing material has three functions: **■ Sound absorption**
■ Heat Barrier
■ Core Support

Important: While washing your Bike, please seal end cap with muffler-plug or similar tool to prevent water from getting into the muffler. Wet muffler-packing material will increase the sound-level. Remove muffler-plug or – tool before starting up your vehicle again!

Another reason causing the muffler packing to fail, especially on 2-stroke bikes, may be Oil and/or Exhaust Gas Saturation or carbon-build up on the muffler-core and/or packing material. If this happens, your bike may run "too rich". In this case contact your local dealer for advice.

To repack your muffler, take it apart, remove old packing completely, clean every part (especially the inner core) and check every part for cracks or other damage. Put inner core back into in the muffler body. Start to refill the muffler from the rear end by wrapping strands of material around the inner core and push them with a stick or similar tool to the front end of the muffler. **Do not wrap to tight or push to hard but make sure that no empty space is left!** After the muffler is completely filled, you must be able to push the packing material about 1 inch more into the can. Never pack to tight! Now mount the end cap and seal the muffler with heat-resistant silicone.

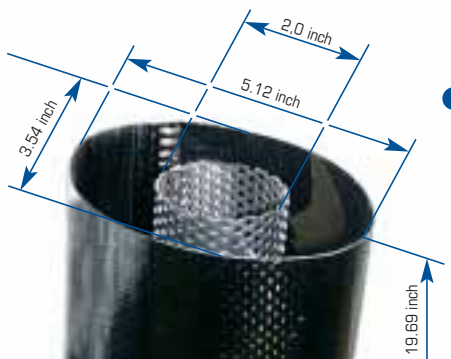


Recommended fill weight:
160 gram / litre for 2-strokes, 220 gram / litre for 4-strokes

Refilling with loose Silent Sport™ Premium insulation-material:

Refilling with loose Silent Sport™ Premium insulation-material:

Example for calculating the filling volume



Attention! Recommended filling density, i.e. the filling weight/ filling volumes.

Filling density: 220 gm/ litre with 4-stroke engines
 = 3,60 gm / cubic inches
 = 0,127 ounces / cubic inches
 160 gm/ litre with 2-stroke engines } Recommendation
 = 2,62 gm / litre
 = 0,092 ounces / cubic inches

Example: Typical Sportbike Muffler

(Note: 1 Litre = 1000 ccm = 61,02 cubic inches)

• Calculation of filling volume

$$V_{\text{casing}} = 0.785 \times 5.12 \text{ in.} \times 3.54 \text{ in.} \times 19.69 \text{ in.} = 280,15 \text{ cubic in.}$$

$$V_{\text{perforated pipe}} = 0.785 \times 2.0 \text{ in.} \times 2.0 \text{ in.} \times 19.69 \text{ in.} = 61,83 \text{ cubic in.}$$

$$\text{Filling volume} = 218,32 \text{ cubic in.}$$

• Required material quantities

$$0,127 \text{ ounces (3,60 gm) / cubic inches} \times 218,32 \text{ cubic inches}$$

$$= 27,73 \text{ ounces (792 gm)} \pm 5 \text{ gm}$$

$$1 \text{ gm} = 0,035 \text{ ounces}$$

$$250 \text{ gm} = 8,82 \text{ ounces}$$

$$450 \text{ gm} = 15,87 \text{ ounces}$$

• Weigh the insulation material and divide into strips **(a)**. Place the material strips evenly around the inner core **(b)**. Make sure that no air voids remain.

• Push the insulation material with a suitable tool. **Attention!** Do not wind too tightly and do not press down too firmly.

Important Note: Your fresh with Silent Sport™ Premium repacked Muffler will become even more quiet after first use. So, if you have to go thru Noise-Inspection with a freshly repacked Muffler, make sure that your Bike is properly warmed up. The difference in Noise Reading between a „warm“ and a „cold“ Muffler can be as much as 1,5 decibel!

