

Introducing the Diamond Syringe Range – Syringe Brilliance

The NEW Diamond Syringe Range from SGE offers a never before seen level of **Durability, Clarity and Accuracy** in the laboratory. No other syringe range provides such brilliance!



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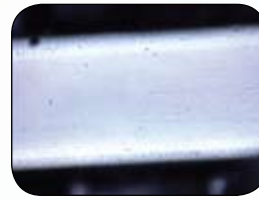
USA

Durability

Enhancements to the SGE Diamond Syringes result in:

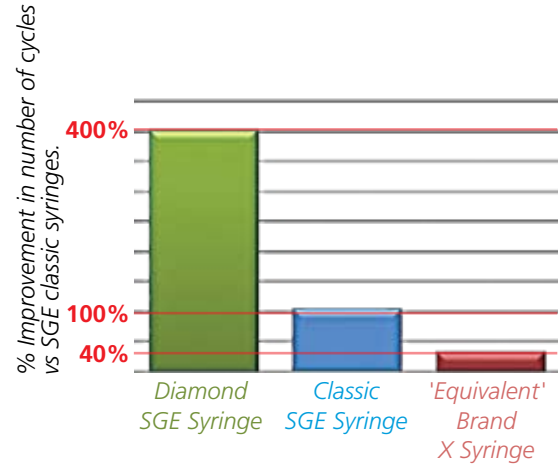
- Improved solvent resistance.
- Greater temperature ranges.
- Increased operational smoothness.

These improvements **deliver longer syringe life**, and an improved cycle life of up to 400% over the Classic SGE Syringe.



Internal glass surface of SGE diamond syringe vs competitor's syringe (magnified 20x).

Improved Cycle Life



Clarity

SGE Diamond Syringes for Manual Use

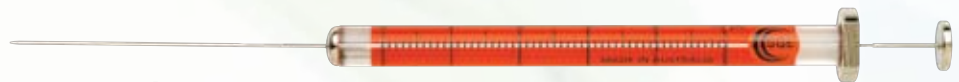
The manual Diamond Syringes have a new black scale and 'bright white' backing. The syringes are easy to use with excellent readability, aiding consistent delivery of samples and precise results.



Manual syringe shown with the optional NEW RAX repeating adaptor.

SGE Diamond Syringes for Autosamplers

The SGE Diamond Syringes for autosamplers and instruments incorporate a vibrant new color scheme distinguished by volume enabling easy identification of installed syringes.



Color	Syringe Volumes			
Yellow	1000 nL (1 µL)		1 mL	1000 mL (1 L)
Grey		250 µL	2.5 mL	2000 mL (2 L)
Lime	5000 nL (5 µL)	5 µL	5 mL	
Dark Orange		10 µL	10 mL	
Green		25 µL	25 mL	
Purple		50 µL	50 mL	
Aqua		100 µL	100 mL	
Light Orange	500 nL (0.5 µL)	500 µL		500 mL (0.5 L)

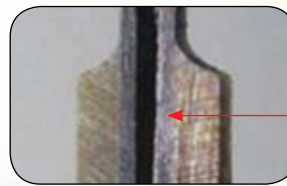
Accuracy

The SGE Diamond Syringe offers a new level of accuracy in the laboratory.

The SGE Diamond Syringes have been enhanced to eliminate areas where fluid can become trapped and potentially cause carry over. A closer fit between plunger tip and PTFE zero point, a tighter fit between the PTFE insert and glass barrel and an improved fixed needle attachment, all help to **reduce carry over** by ensuring the fluid is flushed out.

The SGE Diamond Syringe design enhancements have significantly reduced adhesive from the fluid path. This adds to the durability of the syringe and **reduces the risk of sample interaction** with the adhesive.

The GCMS traces below show **no adhesive contamination** with SGE Diamond Syringes compared to other syringes currently available.



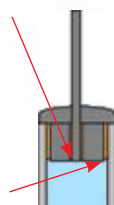
The needle and hub are permanently fused, greatly increasing the strength.

Fixed Needle Attachment

Classic Design

Adhesive in fluid path susceptible to solvent attack resulting in contamination and/or mechanical failure of needle.

Adhesive never fills to end leaving potential for carryover.

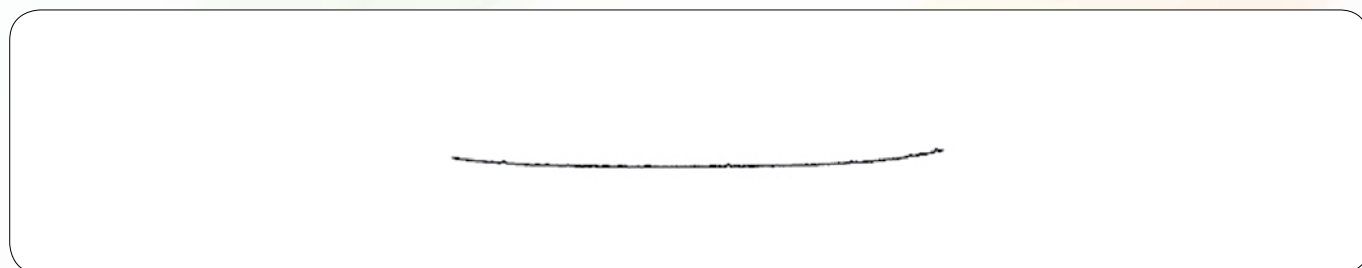
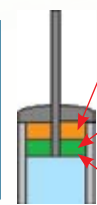


SGE Diamond Design

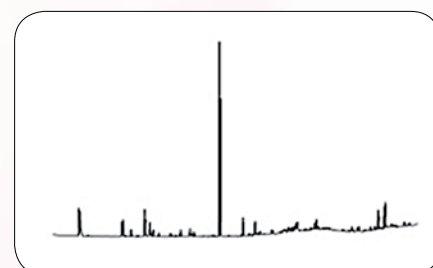
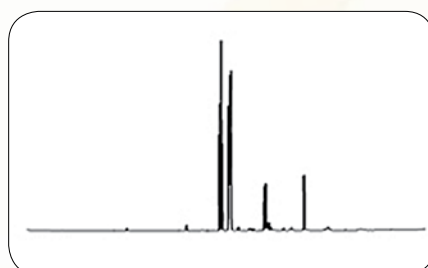
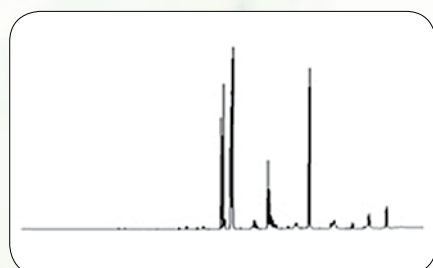
No contact between sample and adhesive.

PTFE seal

Zero carryover potential.



SGE Diamond syringe.



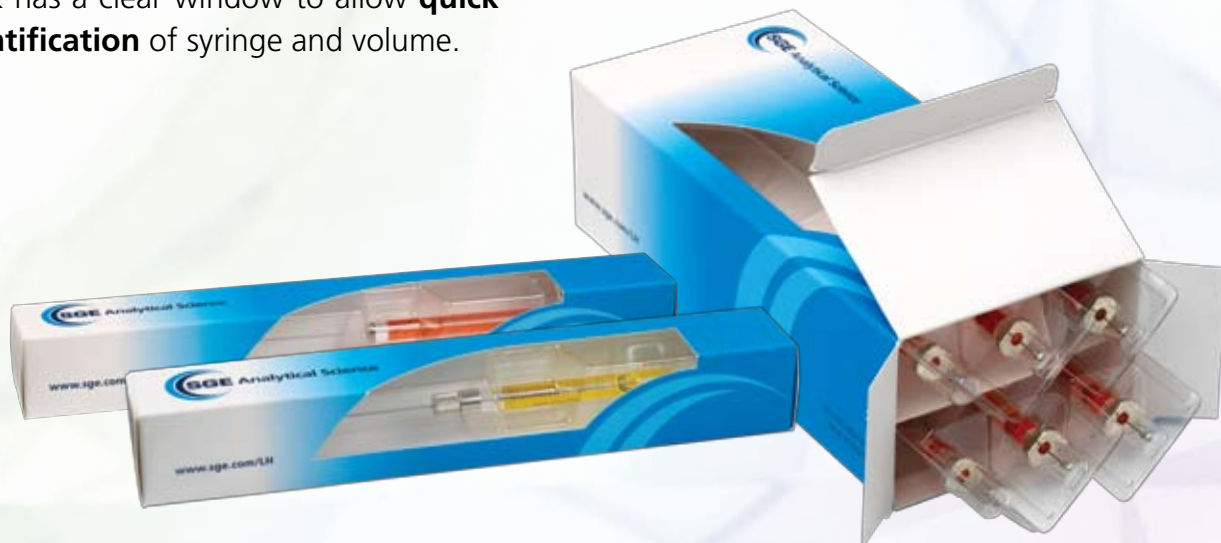
GC MS traces from three syringes currently available in the market showing peaks identified as being components of adhesives.

Syringe Brilliance



NEW Packaging

SGE Diamond Syringes are supplied in new, stylish, **100% recyclable** packaging. The pack has a clear window to allow **quick identification** of syringe and volume.



Syringe Brilliance



SGE Diamond Syringes are being phased in across SGE's syringe range at no additional cost to you.

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