



Diamond MS Syringes

Care and Maintenance Instructions

SGE understands how important your MS results are and how precious your sample is, so we've engineered the Diamond MS syringe range designed to improve the sensitivity of your MS results.

Diamond MS syringes are SGE's cleanest and most easily cleaned syringes available.

 **DIAMOND MS SYRINGES**

- Lowest syringe carry over
- Reduced non specific sample interaction and increased analyte recovery
- Ultra smooth removable needles with choice of surface treatment

This syringe is a precision instrument - in order to maintain optimum performance and long life, a few simple points of care are recommended.

Syringe Specifications

Temperature: 5-120 °C

Accuracy and Reproducibility: $\pm 1\%$ of displaced volume

Note: To maximise accuracy, the smallest injected volume should be no less than 10 % of a syringe's total capacity.

Syringe and Needle Use

Your Diamond MS syringe has been treated with a proprietary cleaning process. Maintain the cleanliness of your syringe by using gloves when handling.

- Prevent damage and contamination to the seal of the needle and syringe by avoiding touching the sealing surfaces.
- Take care not to damage your Diamond MS syringes by ensuring the plunger is not fully depressed until the needle has been installed. Fit the PTFE plug when the needle is removed.

Always inspect product before use. Check the syringe barrel for cracks, and the needle tip for burrs. Avoid cycling the plunger when the syringe is dry.

Unscrew the protective PTFE plug supplied with the syringe and replace it with your chosen ultra smooth needle being careful not to damage the parts.

Note: Diamond MS needle screws are color coded for easy identification:

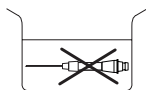
- *Purple – Ultra smooth*
- *Blue – Ultra smooth with hydrophilic coating*
- *Red – Ultra smooth with hydrophobic coating*

For optimal needle selection, consider your sample matrix.

Ensure you have the correct sized needle for your syringe. Two needle seal designs cover the complete syringe range from 10-500 μL . The small seal suits 10-50 μL syringes, the large seal suits 100-500 μL syringes.

Syringe cleaning agents will depend on the contaminating material. Commonly used solvents are methanol, acetone and methylene chloride.

Do not immerse the entire syringe in solvent, the syringe may be cleaned externally by wiping with a lint-free tissue.



Syringe Storage:

Always thoroughly clean the syringe before storage.

To protect against breakage store the syringe in its original packaging or on a syringe rack.

Replacement Parts

Replacement plungers and needles are available for SGE Diamond MS syringes. Visit www.sge.com/contact or contact your nearest SGE office, address details are at the base of this page.

Note:

- DO NOT return any syringe to SGE unless requested to do so by an authorized SGE representative.
- DO NOT return any syringe that has been used with radioactive, infectious or hazardous materials.
- Any syringe being returned must be clearly marked with a Return Authorization Number, which is available from your SGE representative.

Specifications are subject to change without notice.

WARRANTY

All SGE syringes are warranted to meet the stated quality and performance specifications and to be free of defects in material or workmanship. The warranty implies free replacement of a defective syringe only upon proper written proof of the defect and if requested by SGE, the return of the defective product in its original packaging. It does not apply to mishandling of product by the customer, either in storage or use.

SYRINGE CONFORMANCE CERTIFICATE

This syringe has been manufactured using measuring equipment traceable to International Standards. SGE Analytical Science ensures the displacement volume is within the conformance specifications. For applications requiring individual syringe calibration, SGE Analytical Science offers a factory calibration service. Contact your nearest SGE Analytical Science office or dealer for details.

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