

Fused silica nanospray emitters

Introduction

Trajan emitters are optimized for high resolution with extended life in a wide variety of mass spectrometry instrumentation, applications, and workflows.

Intended use

Trajan's nanospray emitters (ID: 10 - 20 μm) are designed specifically for low-flow applications and offer premium performance and robustness/longevity.

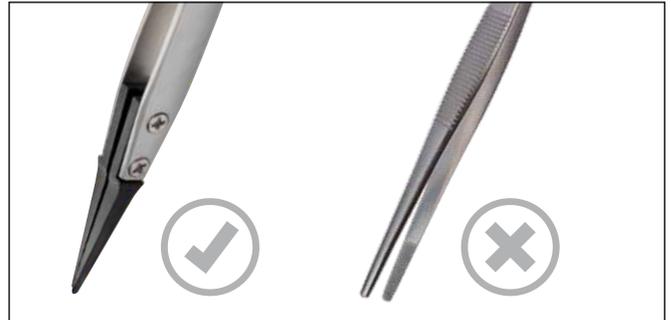
Important

⚠ Precautionary statements:

- Caution should be taken to avoid injury (especially to the eyes) when working with fused silica (quartz). It is recommended to use safety glasses and avoid unnecessary bending or breaking of the fused silica.
- In the event of an emitter breakage or emitter replacement, observe local requirements for disposal of 'broken glass'.
- Narrow-bore emitters can lead to higher back-pressure in the system if partial blockages occur; be careful not to over-pressurize the system as the emitter may dislodge from the fitting/connection.
- Overtightening of the fused silica emitter can cause fractures, leading to higher risk of dead-volume and instrument contamination.

Instructions

1. It is recommended to avoid using metallic tweezers when handling emitters; this can cause irreversible damage to the fused-silica and/or metallic coatings (where applicable).



2. Open the lid of the emitter packaging, tearing the perforations in the label.



3. Using the appropriate PPE, carefully remove the desired emitter from the packaging, tip end first, using caution to avoid damaging the metal-coated and tip area of the emitter.



4. Using caution, install the emitter using the appropriate fittings, ferrules, and/or connections that correspond to your instrument configuration being careful not to overtighten and damage the fused-silica.

Storage and stability

Packaging should be stored at room temperature and ideally in a clean environment.

It is recommended to close the packaging lid when not actively retrieving an emitter to avoid contamination of the emitters with airborne dust and debris.

Troubleshooting

1. For the majority of issues, please first refer to the instrument troubleshooting guide.
2. For drops in performance that may be related to the emitter, try the following:
 - a) Turn off the voltage, check for a droplet accumulating at the tip. If yes, the flow is not blocked. Discard if blocked.
 - b) If there is no droplet at the tip with the voltage off:
 - i. Check for a droplet accumulating at the emitter connection point. If yes, tighten and/or re-make the connection.
 - ii. Check the remainder of the transfer line and column connections as per the instrument troubleshooting guide.
 - c) Check for any damage to the emitter tip under a microscope. Discard if damaged.
 - d) If high back pressure is observed after some time, replace the emitter to confirm issue is with the emitter. Discard if blocked.
3. If emitter issues are unable to be resolved, please contact tech support on techsupport@trajanscimed.com.

Disposal

Refer to local regulations for disposal in an approved waste disposal facility or service. Please recycle the packaging where possible.

Information and support

Visit www.trajanscimed.com for more information. For help with connecting your Trajan emitters to your mass spectrometer, please contact techsupport@trajanscimed.com.

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 www.trajanscimed.com/emitter-tips	