

## *Optimal Online Analysis*

Fused-silica PicoTip® emitters for online electrospray are available in the SilicaTip™ and the TaperTip™, which differ in size and operational flow rates. TaperTips are very robust emitters used in microspray applications. Your emitter-mounting hardware must accommodate 150 or 360 µm outside diameter (OD) fused-silica tubing.

### *SilicaTips*

Fused-silica emitters engineered for continuous-flow nanospray and LC-MS within a flow rate of 20-1,000 nL/min. Each tip is video inspected to ensure that tip shape and taper conform to designed specifications and have a clear path. SilicaTips are able to perform electrospray for hundreds of hours of continuous operation (more than 800 hours with an MeOH/Water/Acetic Acid mobile phase) without a loss of coating.

#### Benefits

- Durable and rugged
- Consistent, sustainable spray
- Wide selection of ID and tip sizes for different applications and flow rates
- Available in range of lengths to fit a variety of mass spectrometer systems
- Multiple coating options to fit a variety of contact techniques
- Custom sizes available

### *TaperTips*

Designed for microspray flow rates (0.2 to 3.0 µL/min.), fused-silica TaperTip emitters are specifically tailored to meet the rigorous demands of continuous-flow microspray and LC-MS. Each tip is video inspected to ensure that tip shape and taper conform to designed specifications.

#### Benefits

- Proven for flow rates of 0.2 to 3.0 µL/min
- Reduced particle clogging
- External taper only
- Extremely rugged and long-lasting
- Wide selection of tip IDs to meet specific applications
- Multiple coating options for a variety of contact styles

### *Metal TaperTips*

Precision trimmed and polished, stainless steel TaperTip emitters are micro-spray workhorses. Extremely durable, each tip can last through months of delivery time. Emitters are easily inserted into a microsleeve to enable use with systems requiring 360 µm OD tip sizes.

#### Benefits

- Outstanding durability, reliable performance > 1,000 hours
- Accommodates a wide flow range: 0.2 - 1.5 µL/min
- Provides a stable, reliable spray
- No internal taper means less clogging
- Reusable

