

Handling Metal TaperTips™

CAUTION: Please wear ANSI-approved safety glasses when handling PicoTip® emitters.

Metal TaperTips™ are 320 µm outer diameter (OD) stainless steel electrospray emitters supporting flow rates between 0.2-1.5 µL/min (50 µm ID emitters) and 0.5-2.0 µL-min (100 µm ID emitters). Metal emitters offer the advantage of providing intrinsic electrical conductivity throughout the entire emitter. This property enables voltage application to any point on the emitter.

WARNING: The Metal TaperTip must not be touched or handled in any way when in use. Because the entire emitter is electrically conductive, electrical shock leading to personal injury or death can result.

Owed to their exceptional performance, Metal TaperTips lend themselves to multiple electrospray applications with enhanced flexibility for higher flow rates. Metal TaperTips possess an external taper but no internal taper to the inner diameter of the emitter (Figures 1 & 2). This design eliminates flow restrictions, offering remarkable robustness and durability against particle clogging.

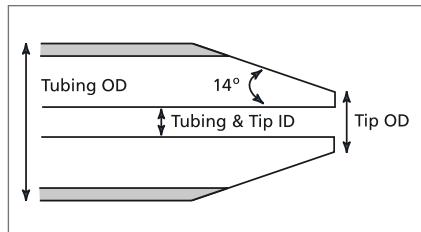


FIGURE 1

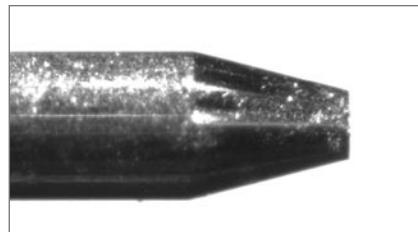


FIGURE 2

Metal TaperTips can be implemented with any mounting hardware designed for handling ESI components. Users of New Objective PicoView® electrospray sources or the ADPT-PRO tip adapter for ABI sources can take full advantage of operation at higher flow rates with proper TaperTip selection. Metal TaperTips arrive attached to a mounting block within a plastic box. Upon arrival, Metal TaperTips can be detached from the mounting block with forceps and used immediately.

NOTE: Metal TaperTips should not be used with samples that may be sensitive to metal binding or adduction.

WARNING: Do not bend or cut Metal TaperTips as emitter performance will be severely compromised.

The information contained in this circular is believed reliable and accurate; however, nothing set forth herein constitutes a warranty or representation of any kind or nature. Given the variety of experimental conditions, New Objective cannot guarantee performance at a given flow rate for a given tip size. Your best guide to tip selection is empirical testing. A statement of product specifications, warranties, and safety information will be supplied upon request. CAUTION: Particular end-user applications for these products may be restricted by existing patents. Complying with any such patent is the sole responsibility of the user. PicoTip and TaperTip are trademarks or registered trademarks of New Objective, Inc. New Objective reserves the right to change product specifications without notice.
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