

## Nickel-Clad Tubing with Options



Ideally suitable for high-performance liquid chromatography and ultra-high-performance liquid chromatography, as well as in laboratory, food and beverage, pharmaceutical and chemical applications, Valco Instruments' new nickel-clad tubing is available with fused silica, PEEK® or polyimide-coated fused silica. According to the company, more specifically:

- The fused-silica tubing has a thick nickel coating to achieve a higher pressure rating, while a thin nickel coating may also be used for resistive heating. The nickel also performs as a temperature sensor, resulting in the lowest thermal mass fused-silica column currently available. Nickel-clad fused silica also allows the use of metal ferrules for improved leak-tight connections. This tubing, furthermore, permits resistive heating of columns and transfer lines, as well as optimizes heat transfer to fused silica over wire-heating methods. It incorporates a 1/32-inch outer diameter with inner diameters from 10  $\mu\text{m}$  to 0.10 inches.
- The PEEK tubing not only allows direct connections using metal ferrules to produce enhanced pressure performance, but also comes in a 1/32-inch outer diameter (with inner diameters of 0.002 to 0.015) and a 1/16-inch outer diameter (with inner diameters of 0.002 to 0.040), thereby permitting operation up to 40,000 PSI.

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- The nickel-clad polyimide-coated fused-silica tubing is available with a 1/32-inch outer diameter and inner diameters from 10 to 250  $\mu\text{m}$ . The nickel can be plated either directly over the fused silica polyimide layer or the bare silica for temperature applications above 400°C. A thin-wall, low mass version optimized for resistive heat applications is also available.

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