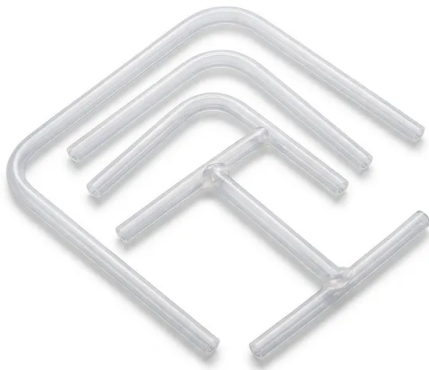


High Purity Pfa Coiled Tubing Custom Ptfе Machining Pfa Welding And Precision Bending Solutions

Item Number: PL-CP37



Introduction

Premium PFA coiled tubing and custom fluoropolymer fabrication solutions for semiconductor and chemical processing. Expert CNC machining, precision welding, and tailored bending services ensure high-purity fluid transfer and zero-leakage performance in corrosive environments. Contact us for bespoke industrial specifications today.

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Application	Description	Key Benefit
Semiconductor Wet Etching	Transporting ultra-high purity acids and solvents to silicon wafers during the cleaning and etching phases.	Zero ionic contamination and resistance to HF/HNO3 mixtures.
Pharmaceutical Synthesis	Handling reactive intermediates and sterile fluids in custom glass or stainless steel reactor interfaces.	Superior biocompatibility and ease of sterilization for cleanroom use.
Chemical Distribution Systems	Managing the bulk transfer of aggressive chemicals from storage tanks to point-of-use stations.	Long-term durability and leak-proof welded connections for operator safety.
Laboratory Instrumentation	Providing flexible, space-saving fluid lines for autosamplers, HPLC, and mass spectrometry systems.	High flexibility with minimal internal volume and no leaching of plasticizers.
Environmental Trace Analysis	Sampling and digestion of environmental samples using high-purity vessels and transfer lines.	Exceptional material cleanliness ensuring accurate detection of trace elements.
Heat Exchanger Components	Custom-coiled PFA tubing used in immersion heaters or cooling coils for corrosive baths.	High thermal conductivity relative to wall thickness and total chemical immunity.
Aerospace Fluid Systems	Specialized fuel and hydraulic lines required to operate in extreme temperature and vacuum conditions.	Weight reduction and maintenance of mechanical integrity in harsh environments.

Specification Category	Details for PL-CP37 Series
Base Materials	Virgin PFA (Perfluoroalkoxy), Virgin PTFE (Polytetrafluoroethylene)
Fabrication Methods	CNC Machining, Thermal Bending, PFA Fusion Welding, Custom Molding
Tubing Configurations	Coiled (Spring), Straight, Multi-core, Corrugated (Custom Available)
Available Diameters	Fully Customizable (Metric and Imperial sizing per request)
Wall Thickness	Tailored to pressure requirements and flexibility needs
Operating Temperature	-200°C to +260°C (Material Dependent)
Chemical Compatibility	Universal (except molten alkali metals and fluorine at high temperatures)
Compliance	Semiconductor-grade purity, USP Class VI material options
Fitting Interfaces	Welded PFA joints, Flared, Compression, or NPT/BSP Threaded
Maximum Pressure	Dependent on custom wall thickness and operating temperature