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July 2013

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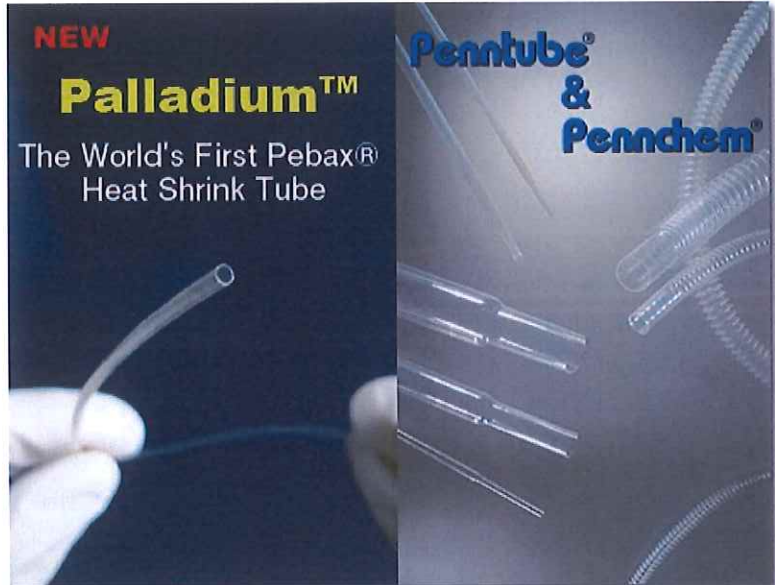
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Information

Penn & Nitto Corporation was established in 1977 specializing in tubes made of fluoropolymer materials. Since its inception, we have been supplying to our customers a number of reliable products for a variety of applications over a quarter of century. It is our intention to respond to our customers' needs as in the past by recommending the unique products made by some of the world-class companies we've been associated with and by our own continual research and development. We will strive to provide solutions to the unique applications that our customers may have. This is our modest homepage with a taste of our technology, but we hope you will find something of interest. We look forward to hearing from you.

Note: Our trade marks, Penntube and Pennchem are registered by following countries ;China, Korea, Malaysia, Singapore, Taiwan, France, Germany, Italy and Japan.



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▶ Penntube® Penntube®

Penntube® is a tube made of fluoropolymer with many superior properties. By covering the desired location of an object with a tube, many benefits could be gained such as: temperature resistance, dielectric properties, non-stick, low friction and protection from outside environment (chemical resistance, humidity resistance, contamination resistance). It also reinforces the covered area quite easily.

Penntube® is used in a wide variety of markets such as: aircraft & aerospace, semiconductor equipment, electric power & communication, computer & OA (office automation), transportation, food & chemicals, home appliance, etc.



▶ Pennchem® Pennchem®

Pennchem® CT and Pennchem® TX are tubes with waved surfaces also made of fluoropolymer with many superior properties. They are used in semiconductor/LCD/quartz equipment, MA machinery, measuring instruments, physics-chemistry instruments, etc. The main application is fluid transfer and handling.

Both have a unique wave shape: Pennchem® CT with corrugated surface and Pennchem® TX with helically convoluted surface.



▶ Finetube Finetube

Finetube is a high-precision extruded tube made of TFE fluoropolymer, with both "thin" and "fine" properties. There is no standard size, as Finetube can be supplied as cut sections or long tubes. Finetube can also be colored, in two single colors, stripes, etc. Finetube is available in two types: SLW-SPA (spaghetti tube) and SLW-HST (heat-shrinkable tube).



▶ Extruded Tube Extruded Tube

Extruded Tube is made of TFE fluoropolymer. Its small bending radius provides superior adjustability in piping. Extruded Tube is mainly used as electrical insulation material in high-temperature, high-frequency and corrosive environments in various fields. The Extruded Tube lineup includes SPA-TFE, which complies with standards such as AMS, UL and CSA, and Tube BT, which is mainly used as piping material for conveying fluids.



▶ 3M 3M

Cross-linked Polyolefin Tube is a heat-shrinkable tube, with electrical and mechanical properties improved by high-energy electron beam irradiation. It is mainly used as electrical insulation material in various fields including aerospace, automotive and electric/electronic parts.

▶ Pebax® Palladium™ Palladium



Palladium™ is a brand name of Pebax heat shrink tubing developed by Cobalt Polymers for the first time in the world in 1995.

Pebax® has many features of thermoplastic elastomer. It does not include plasticizer and is low in water absorbability and hygroscopic nature, as well as high stabilities in dimensions, mechanical properties, and electric resistances.

Wide range of degrees of hardness covering from rubber to hard-plastic, whose shore durometers are from 35 to 72, is achieved by altering the composition of polyether and polyamide. It has the higher elasticity among other thermoplastic elastomer materials.