

High-density fiber-reinforced spiral wound tubing explosion-proof type in stock



AI Overview

High-density fiber-reinforced spiral wound tubing, suitable for explosion-proof applications, can be sourced with high mechanical strength, chemical resistance, and thermal stability from specialized manufacturers like Politubes and G10 epoxy fiberglass suppliers. Product Overview Spiral wound tubing is manufactured by winding adhesive-coated strips or high-quality fiberglass-epoxy composites around a mandrel, creating a tubular structure with enhanced mechanical, thermal, and electrical properties. High-density fiber reinforcement provides exceptional strength, making the tubing resistant to perforation, high pressure, and mechanical stress, which is critical for explosion-proof applications. Materials and Properties: Fiberglass-reinforced epoxy (G10/FR4): Offers high mechanical strength, excellent chemical resistance, and electrical insulation, suitable for both dry and wet environments. Thermal resistance: Spiral wound tubes can operate across a wide temperature range, from -50°C to $+300^{\circ}\text{C}$, depending on the material and adhesive used. Dielectric strength: Tubing can achieve 3 kV/mm up to 300 kV/mm, ensuring electrical safety in high-voltage environments. Chemical compatibility: Resistant to resins, solvents, and industrial chemicals, maintaining structural integrity in harsh conditions. Customization and Dimensions Manufacturers like Politubes provide bespoke solutions: Wall thickness: 0.05 mm to 0.8 mm Diameters: 1.6 mm to 150 mm Lengths: cut-to-size (5 mm to 6,000 mm) or spooled rolls Multi-wall options to combine electrical, mechanical, and thermal properties in a single tubing G10 epoxy fiberglass tubes are available in standard NEMA grades, typically yellow or light gre...

Article Content

Spiral Corrugated Pipes (HDPE)

Developed by Esen Plastik, Spiral Wound Corrugated Pipes are manufactured from high-density polyethylene (HDPE) using advanced extrusion and spiral winding technology. The outer surface of

Spiral Tubes – Royaltech

This spiral-wound design allows the tube to flex and bend in multiple directions without collapsing, making it suitable for applications where flexibility and

Spiral wound tubes

We produce helically wound tubes as semi-finished product for the production of storage tanks or chemical apparatus. Different wall thicknesses could be

A Tool for Any Task: Spiral Wound Tubing Materials

Corrosion prevention Bolt insulators Electrolock has produced premier insulation products, including the use of many spiral wound tubing materials, for the high

Flexible spiral hoses – Foscarin Group

Reinforced tubes in spiral steel (for high to extremely-high pressure); there is also availability of special spiral hose devised to guarantee superior performance

Explosion Proof, Atex Certified Flexible Conduit

Conduit type FDZ Description: Galvanised steel, helically wound, flexible conduit with smooth thermoplastic rubber cover. ONLY AVAILABLE IN BLACK

Reinforced Tubes | US | Teleflex

Rüsch ® and Sheridan ® reinforced tubes from Teleflex feature a full range of both cuffed and uncuffed tubes. With a stainless-steel, spiral-wound, reinforcing wire within the tube wall and bonded 15mm

Spiral Reinforced Tubing

New England Tubing specializes in spiral reinforced tubing, typically used to improve hoop (crush) strength, add kink resistance, and change flex characteristics of

Spiral-wound metaflex gaskets | James Walker

Explore spiral-wound Metaflex gaskets from James Walker. Made for high-pressure, high-temperature and demanding duties where conventional gaskets fail.

Heat Shrink Tubing

International Dielectric Products, Inc. specializes in the manufacture of a high quality, diverse range of spirally wound tubing products widely used in industrial

Composites

Using custom resin systems of epoxy, polyester and vinyl esters, plus various glass and carbon fibers, Janco manufactures composites with the precise mechanical, electrical and temperature properties

FITCOTUBE® Polyester Spiral-Wound | GREMCO GmbH

Heat-shrink polyester spiral-wound tubing Our MYLAR®/NOMEX® epoxy hoses not only provide the optimum means to waterproof and electrically insulate pipes but

Spiralwound Gaskets

Spiral wound gaskets particularly fit difficult operating conditions such as: high pressure, pressure fluctuations or high temperatures. In the industry, spiral wound gaskets are used in the following

Filament-Wound Epoxy-Dipped Tubing | High Impact Resistance

Filament wound tubes are wound from glass laminates dipped in epoxy resin, and offer excellent mechanical, electrical, and physical properties, even at elevated temperatures from 130°C to 180°C.

Reinforced Tubing | McMaster-Carr

Tough and durable, this tubing resists abrasion and tearing. Designed for high-purity processes, this tubing is made without plasticizers like DEHP that can

Spirally wound tubes and caps for electrical insulation

Applications of the insulating sleeves The spiral wound foils are generally used for the electrical insulation of wire connections and thermal

Engineering Guide

The glass fiber reinforced epoxy resin piping system resists the corrosive effects of mixtures of low concentrations of acids, neutral or near-neutral salts, solvents and caustics, both under internal and

Explosive Proof Duct | Explosion Proof Duct

What is Explosion Proof Duct? An explosion proof duct, also known as explosive proof duct refers to a type of ducting system designed and constructed to prevent

BNG Series Explosion-proof Flexible Conduits

Application in hazardous area -Zone 1 and Zone 2 -Zone20 -Zone 21 and Zone 22 Flame-proof (Type "d") structure.The middle part of BNG-g flexible conduitis

Antistatic Explosion-Proof Tubing | BOLA

Very good electric conductivity due to a special “antistatic compound” made of pure PTFE and finest, highly pure carbon dust (less than 2,5%).

Spiral Wound Module

Polyamide TFC membranes are used for spiral wound module. In spite of hollow fiber module having advantage over spiral wound with respect to higher packing density and thus the production, most of

HDPE, Pipe, Fittings, Plastic

Chemical and corrosion resistance High density polyethylene (HDPE) is an ideal pipe material due to its outstanding resistance to corrosive and aggressive chemical environments. The material is used

SPIRAL WOUND GASKETS

Our extensive and varied product offering includes spiral wound gaskets, RTJ gaskets, Flexpro™ Kammprofiles, sheet materials, dynamic and static packings, pipe support and custom rubber products.

FITCOTUBE® Polyester Spiral-Wound | GREMCO GmbH

Our MYLAR®/NOMEX® epoxy hoses not only provide the optimum means to waterproof and electrically insulate pipes but also are successful in other

Spiral Wound Modules-UNISOL Membrane Technology

Spiral Wound Membrane Modules The Spiral wound membrane is formed by winding a flat sheet membrane, feed spacer, permeate carrier and center

Spiral Tubing | Shrink and Non-Shrink | Electrolock

Electrolock offers spiral tubing for many applications. Our spiral wound tube solutions use polyester, polyimide, aramids, fiberglass & more.

High-performance and standard Spiral hoses and

Danfoss offers a range of robust high-pressure, high-impulse, high-performance spiral hoses and leak-proof, rust-resistant spiral fittings that can withstand even

G10 Epoxy Fiberglass Tube | G10 Sleeve

High-quality fiberglass, impregnated with ultra-low-viscosity, high-temperature-resistant epoxy resin, winds into the G10 epoxy fiberglass tube. In both dry and

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.introspec.co.za>

Email: info@introspec.co.za

Phone: +27 73 849 2156

Address: 25 Riebeek Street, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

