

High-temperature resistant bundled tail fibers for mining



Overview

Fiber-reinforced cemented tailings backfill (FTB) has been widely adopted in underground mining operations as an effective solution for mitigating the brittleness of cemented tailings backfill (CTB) and ensuring compatibility with deep mining environments. Understanding the coupled effects of Iron-Chromium-Aluminum (FeCrAl) fiber has high resistivity, small temperature coefficient, long service life, high surface load, and good oxidation resistance performance; compared with stainless steel fiber, it can be used in much higher temperature environments. This extends the potential field of application to a range from $-190\text{ }^{\circ}\text{C}$ to $+385\text{ }^{\circ}\text{C}$. WEINERT Industries offers everything related to topic High-temperature. AMI manufactures the widest range of versatile, heat resistant fabrics for demanding high heat MRO applications to reduce the risk of fire and heat, protect personnel and equipment, lower energy consumption, and save money. Stainless steel fibers exhibit all. Dongguan HX Fiber Technology Co. The company was founded in 2010 with its own brand HXCOWO, dedicated to providing optical fiber cabling system solutions for data centers.

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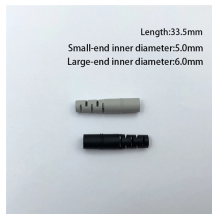
The sleeve is made of 316L stainless steel fiber, which has the characteristics of temperature resistance (600-700 °C), abrasion resistance and long service life.



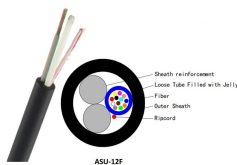
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A total of three diverse fibers: polypropylene (PP), glass (G), and basalt (B) as well as dodecyltrimethylammonium bromide (DTAB) as a foaming agent were used to prepare fiber ...



All our high heat fabrics and fire retardant textiles are available in a variety of high-performance fibers and composites including aramid, fiberglass and essentially pure amorphous silica. They are light, ...



The addition of fibers can increase fill's energy storage limit, slow down discharge of elastic strain energy within backfill, and enhance fill's ductility and toughness.



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This study's findings highlight how optimizing steel fiber type and dosage can enhance tungsten tailings utilization and fiber-reinforced fill performance, providing valuable theoretical ...



Multimode fiber pigtails are orange, with a wavelength of 850nm and a transmission distance of 5km, used for short-distance interconnection. Single-mode fiber pigtails are yellow, with two wavelengths, ...



Our common fiber types include 316L, 302, 304, 430, 434, Hastelloy and Inconel. Stainless steel fibers possess many beneficial properties, such as good electric and heat conductivity, high corrosion and ...



For use in higher temperature ranges, all optical fibers based on Fused Silica can be optionally equipped with heat-resistant coating materials. This extends the potential field of application to a range from ...

Contact Us

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