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Polyurethane Foam Tube Shell



Polyurethane Foam Tube Shell is produced with polyurethane and polyisocyanate as the main raw materials. It has excellent antifreeze, heat insulation and thermal insulation effects. Its thermal insulation effect is more than 4 times that of other pipes, and the heat loss is only 25% of that of traditional pipes. The products are widely used in urban heating and cooling projects, can be directly buried in the frozen soil layer, and have strong waterproof and anti-corrosion capabilities.

1, Description of Polyurethane Foam Tube Shell

The Polyurethane Foam Tube Shell is of double-layer structure, the protective layer is made of polyethylene material, and the insulation layer is made of polyurethane rigid foam material. The thermal conductivity of the product is extremely low, which is superior among all insulation materials, and can reduce heat loss to achieve the effect of thermal insulation and cold insulation. The closed cell rate of the product is more than 92%, which is a microporous structure. Directly buried underground pipes can not only play a role in thermal insulation, but also effectively waterproof. The product is suitable for penetration corrosion of moisture and other liquids and gases. The temperature of the product is - 60 - +120 °C. It is used in central heating pipelines, refrigeration projects, air-conditioning pipelines, chemical engineering, power pipelines, etc. The construction is simple and fast, and it is an indispensable material for thermal insulation projects.

Polyurethane foam pipe shell is made of polyisocyanate (black) and polyether material (white) under the action of foaming agent, catalyst, flame retardant and other additives. It has aging resistance and long service life.

2, Main performance parameter of Polyurethane Foam Tube Shell

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Item	Unit	Value
thermal conductivity	W/m.k	0.016-0.024
density	Kg/m3	40-65
close cell content	%	≥92
Water absorption	%	<0.2
compressive strength	Mpa	≥0.7
bending strength	Mpa	≥0.5
flame retardancy		B1 Grade
Operating temperature	°C	-196°C~+120°C

3, Main characteristics of the product

- 1) Low thermal conductivity, good thermal insulation and cold insulation effect, energy saving more than 25%
- 2) Cold resistant, antifreeze, anti-corrosion, waterproof, flame retardant, etc., can be directly buried underground, and the operating temperature is - 196 -+120 °C
- 3) Light volume weight, high strength, and better use effect than traditional pipes
- 4) Anti aging, long service life

4, Main purpose of the product

Widely used in central heating pipeline, refrigeration engineering, petrochemical industry and electric power industry

5, Good feedback of product use effect, the products have been exported to South Korea, Japan, Pakistan

6, We are a professional supplier, who can provide customers with free product technology, use and other issues

[Do you want to find a professional supplier of Polyurethane Foam Tube Shell?](#)

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