Anaaco
Knowledge Based Product
Porous Sponge Pipe

Anaaco New Product
Irrigation
Agriculture

The newest generation of drip irrigation methods is Porous Sponge Pipe irrigation, where instead of using dripper or irrigation tape, water droplets penetrate from the wall of the tube. This small change will have countless comparative advantages, which can be expected to be fundamental changes in optimizing water use and proper plant growth. Porous sponge pipes are not perforated, but they create a mild and uniform humid space along the length, because no pipe-tension occurs until the entire length of the pipe is filled with water. Also, due to the use of high density polyethylene (HDPE) in making these pipes, their life is much longer than other irrigation products.

Porous sponge pipes have various applications including irrigation, aeration of water pools, hydroponics, water purification, irrigation of green spaces, delivering oxygen and nitrogen gas into the roots of plants and so on.

Irrigation of Green Houses

Hydroponic means planting in water and nutrient solution without the use of soil.

Providing moisture is one of the important parameters for the growth of plants.

- Lack of maintenance and repairing cost
- Water saving
- Long life
- Increasing the quality and productivity of the agricultural products
- Easy installation
- Low pressure operation

Irrigation of Green Space and Grassland

For grass, pipes are spaced 30 to 50 cm apart in parallel so that the soil surface is sufficiently wet.

For green space, the pipes are placed at a depth of 15 cm.

With these pipes you will not have any dry parts, dry strips or burned grass.

Contact Us

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Specifications	
Product Name	Porous Sponge Pipe
Product Code	PP-20
Outer Diameter (mm)	20
inner Diameter (mm)	16
Standard Packing (m)	25
Weight Per Pack (kg)	3.5 ±0.1
Maximum pressure (bar)	15
Work pressure (bar)	0.5 - 1
Output Flow rate (litr/hr/m)	4 - 8
Toxicity	None
Color	Black
Product appearance	Porous
Rupture caused by freezing	No
Thermal stability (Celsius)	100
Wall Thickness (mm)	2
Average Pore size (Micron)	300

Garden Irrigation

Gardening in a new way, with no drainage at tree distances and delivering the exact amount of water needed to improve root development and reduce weeds.

- **Reducing water consumption up to 70% compared to other irrigation methods**
- **The absence of evaporation and, consequently, non-fouling of the pores due to sub-surface conditions**
- **No need for dripper and sprinkler and so on**
- **Long life due to the use of polyethylene polymer**
- **Work at low pressures**
- **Protection from cold and heat, robbery, damage by animals and rodents**

Aeration

The most recent application for porous pipes includes aeration in water pools to improve oxygenation in water and increase the capacity of aquatic production per unit area.

For shrimp farming, a circuit of Porous Pipe is made and laid under the water. The depth of the circuit depends on how deep the water is in the pond. The circuits are then connected with a blower, which continuously blows air into the pond.

- **Easy installation**
- **Easy maintenance**
- **Energy saving**
- **Faster oxygen diffusion**