EPS PIPE

MULTI UTILITY INSULATION

TECHNICAL DATA - INSULATION EXPANDED POLYSTYRENE

Expanded Polystyrene (EPS) is widely recognised as a highly cost-effective construction and building material.

Due to its exceptional load bearing, it is used in civil engineering projects like embankments for road construction and bridge work, etc.

The performance of the insulation will not degrade over time, ensuring full thermal efficiency across the lifetime of the building.

Using EPS as insulation for pipework is a fairly new phenomenon, however doing it correctly it will provide you with a super-insulated pipe network.

If needed, EPS S300 can be used instead of standard S200.

S300 provides a higher compressive strength, which may be beneficial in construction areas subject to high loads – such as under load-bearing walls, slab-on-ground foundations, or other structural elements with concentrated or heavy loads.

The increased strength offers greater safety margins against deformation and long-term settlement.

MAIN BENEFITS OF USING EPS AS INSULATION FOR UNDERGROUND PIPEWORK:

LIGHT WEIGHT:

- 2% expanded polystyrene and 98% air
- Easy to handle

ENVIRONMENT:

- Non-toxic, biological inert and contains no CFCs or HCFCs
- Reusable
- Recyclable up to seven times

VERSATILE AND DURABLE:

- Adaptable; easy to cut and adjust
- Does not support fungal, bacteriological or animal growth
- Non-hydroscopic*
- Rot-proof**

LOWER CARBON FOOTPRINT

SPECIFICATION	STANDARD	UNIT	EPS S200	EPS S300
CE Approval code	NS/SS/EN 13163		F305433, F311433-1	F305433, F311433-1
Thermal conductivity, Lamdba value (λ)	NS/SS 12667 el. NS/	W/mK	0.034	0.033
Water absorption, by immersion	NS12087	vol.%	<5	<4
Compressive stress, short-term load	NS826	kPa	≥ 200	≥ 300
Compressive stress, long-term load 3 % total deformation 50 yrs	SS/EN1606	kPa	≥ 70	≥ 110
Density		Kg/m^3	30	40
Euroclass	EN13501-1		F	F
Block length		m	2.40	2.40
Max temperature		°C	80	80
BRE Rating	BRE		A+	A+

* Minimum absorption and no capillarity
** Ideal for substructure applications

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ELGOCELL AB
BREDBANDSVÄGEN 19
291 62 KRISTIANSTAD
SWEDEN

WWW.ELGOCELL.COM

INFO@ELGOCELL.COM
+46(0)44121050