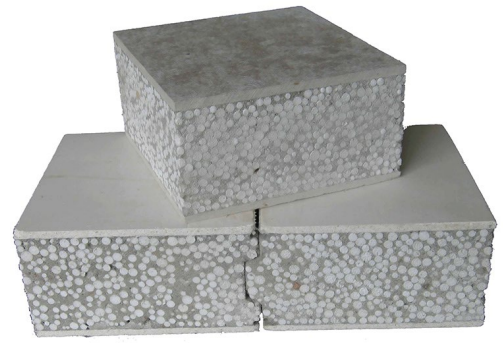




EXPANDED POLYSTYRENE SOLUTIONS

# STYRO Beads for Lightweight Concrete



STYRO Beads are small, lightweight and comes in a white or gray colour. They are fire-retardant and have a round, pearl-like shape. The beads typically range in size from 3 to 12 mm and have an apparent density of 8-15 Kg/m<sup>3</sup>. The construction industry widely uses STYRO polystyrene beads to create lightweight screeds with exceptional thermal and acoustic properties. Ready-mix manufacturers often mix EPS beads with concrete to enhance its thermal insulation properties and reduce its weight per cubic meter. This results in substantial savings in structural costs for construction projects.

Density 1/kg m <sup>3</sup>	Compressive Strength		Flexural Strength		Elastic Modulus
	α/MPa Max.	Mean <sup>b</sup>	α/MPa Max.	Mean <sup>b</sup>	E/MPa
500	2.5	2.2	0.9	0.7	1.0x10 <sup>3</sup>
800	4.4	3.9	1.1	0.9	1.3x10 <sup>3</sup>
1000	8.3	5.9	1.5	1.5	2.9x10 <sup>3</sup>

a) Measured in accordance with DIN 1048.

b) Typical for production from mixes formulated for minimum thickness.

c) In compression.



Watch the Video

## ✓ Lightweight:

STYRO Beads are extremely lightweight, making them an ideal choice for a variety of construction applications. Its use in concrete mixtures can significantly reduce the weight of the concrete, making it easier to transport and install.

## ✓ Thermal Insulation:

It have excellent thermal insulation properties, helping to keep buildings and homes warmer in the winter and cooler in the summer. This can lead to significant energy savings and lower heating and cooling costs.

## ✓ Acoustic Insulation:

STYRO Beads also have excellent acoustic insulation properties, reducing noise pollution and making buildings and homes quieter and more comfortable.

## ✓ Fire Retardant:

STYRO Beads are treated with fire retardants to enhance their fire-resistant properties, making it safe for use in construction projects.

## ✓ Cost Effective:

STYRO Beads can result in savings on material and transportation costs, as well as on the cost of the concrete utilized in the project.

## ✓ Environment Friendly:

STYRO EPS Beads are 100% recyclable and do not emit harmful gases or toxins during production or use. Using EPS beads in construction can contribute to sustainable and eco-friendly building practices.

CALL NOW: 600 520 006

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