

Expandable Polystyrene

INEOS Technologies offers a state of the art expandable polystyrene (EPS) technology.

The EPS technology combines superior variable costs and low investment costs as well as an excellent portfolio of high quality products well accepted all around the world. The proven operational reliability of the process ensure a notable competitive advantage over other expandable polystyrene producers for future projects.

At the heart of INEOS Technologies' expandable polystyrene suspension technology is the reactor, containing a proprietary agitator and baffle system for ensuring excellent mixing and temperature control. An optimised reduced temperature with chemically initiated polymerisation results in both significantly improved and more consistent polymer properties.

With the collective experience of commercially proven operation and ongoing process developments, single lines featuring up to four reactors have now reached a capacity of 100 kt per year which is the highest capacity on the market for a single swing line producing both FR & Regular polystyrene grades. This provides the ability to deliver an unparalleled return on investment.

The INEOS Technologies' expandable polystyrene process offers the benefit of excellent capital and operating costs coupled with an operationally robust process that produces broad and competitive product ranges accepted on the market worldwide.

Products

The high quality EPS products are widely accepted in the market place. The EPS technology produces a full range of products in the three main application areas including packaging, loose fill and insulation. This broad product line provides the flexibility to offer grades specifically tailored and modified to meet all major product applications.

Packaging applications typically include all forms of containers for shipping, trays, picnic/ice chests, helmet liners, etc. Loose fill applications typically cover consumer products such as bean bag chairs, stuffed animals and toys. The insulation applications target both high mechanical and high insulation properties as used in the construction business. Both regular and flame retardant grades are available.