



versalis

TECHNICAL DATA SHEET

Extir®
Expandable polystyrene

AM 7000 AE

Product description

Extir AM 7000 AE is an HBCD-free flame retardant expandable polystyrene in the form of spherical beads of large particle size, containing pentane as blowing agent.

Extir does not contain CFC or HCFC.

Extir AM 7000 AE is suitable for production of low density blocks for the thermal insulation sector.

Technical data

Bulk density	kg/m ³	590 - 630
Particle size	mm	1.4 - 2.2
Minimum apparent density		
• on a continuous pre-expander after one expansion	kg/m ³	15
• on a continuous pre-expander after two expansions	kg/m ³	10
• on a discontinuous pre-expander	kg/m ³	12
Density range normally used	kg/m ³	11 - 20

Applications

Extir AM 7000 AE is used mainly in the construction sector where, for legislative or safety reasons, the use of a flame retardant material is required.

Typical applications are:

- low density blocks, especially for external thermal insulation
- low density elastified blocks for impact sound absorption (Trittschall)
- blocks or slabs for road foundations and civil construction



Processing

Extir AM 7000 AE can be easily pre-expanded down to 15 kg/m³ after one expansion and down to 11 kg/m³ after a second one.

The recommended ageing time before moulding obviously depends on the pre-expanded density and ranges from 6 to 48 hours.

Moulding is characterised by fast cycle times. In addition, due to an excellent reaction to steam, it is possible to mould with a higher content of FR recycled material without significant reductions in properties.

Blocks are cut into sheets of the desired thickness or into shaped articles by means of hot and/or oscillating wires

General information

It is recommended to keep the product in a dry well ventilated store between 15-20°C. For product packaged in octabins the guaranteed shelf-life is one month; product in steel drums has a six months guaranteed shelf-life.

During the processing of Expandable Polystyrene any sparks or naked flames must be avoided and smoking should be forbidden. An adequate electrical earthing of machinery and of pneumatic transport lines is recommended.

For further information concerning storage, packaging and processing precautions please refer to "Styrenics - Technical data sheets" and to the "Extir Safety Data Sheet".

Regarding "flame retardant" properties, Extir AM AE raw materials are officially certified Euroclass E according to EN 13163 Annex E. Products bearing French certification (LNE) or German certification (B1 nach DIN 4102) are provided on request.

The action of the flame retardant additive is exerted only after the elimination of blowing agent and, therefore, only after Extir AE has been transformed into foamed articles (suitably aged where necessary).

