



versalis

TECHNICAL DATA SHEET

Extir®
Expandable polystyrene

CM Galileo IO M 5AE

Product description

Extir CM is the new expandable products range produced with the new Continuous Mass technology. All the products have a very low dimensional dispersion and a reduced content of blowing agent. Extir CM does not contain CFC or HCFC.

Extir CM Galileo IO M 5AE contains an atherman additive that reduces heat transfer, and the items produced with it, light grey in colour, have excellent thermal insulation properties. Its particular formula makes it more resistant to sunlight exposure than other products. Extir CM Galileo IO M 5AE is an HBCD-free flame retardant expandable polystyrene.

Technical data

Bulk density	kg/m ³	590 - 630
Particle size	mm	0,9 - 1,6
Minimum apparent density		
• on a continuous pre-expander after one expansion	kg/m ³	18
• on a continuous pre-expander after two expansions	kg/m ³	12
• on a discontinuous pre-expander	kg/m ³	15
Density range normally used	kg/m ³	12 - 25

Applications

Extir CM Galileo IO M 5AE is used to produce blocks and items having a thickness higher than a few centimeters to be used for thermal insulation in buildings. Thanks to its superior properties of mechanical strength, fire resistance and sunlight stability, it can be used for:

- wall insulation from outside (ETICS)
- pitched roof insulation
- floor insulating elements



Processing

All the grades in the Extir CM range can be processed with conventional equipment using very similar processing conditions to the one used for conventional products. The grades in the Extir CM range are used for block moulding and subsequent hot wire cutting to get boards or profiled items and press moulding for items with a minimum thickness of a few cm.

The resulting items show good fusion, low shrinkage and a good surface finish.

General information

It is recommended that the product be kept 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 month guaranteed shelf-life.

During processing of Expandable Polystyrene any sparks or naked flames must be avoided and smoking should be forbidden. Adequate electrical grounding of machinery and of pneumatic conveyance lines is recommended.

For further information concerning storage, packaging and processing precautions please refer to "Styrenics - Technical data sheets" and the "Extir Safety Data Sheet". Regarding "flame retardant" properties, Extir CM Galileo IO M 5 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).

