

# biosil® PT6 advanced

biosoluble mineral wool

## PRODUCT FEATURES

Rolls, punched parts, blanks and moulded parts made of biosoluble mineral wool for good **acoustic absorption** and **thermal insulation** in the area of **engine compartment encapsulation (bonnet, bulkhead and transmission tunnel)**.

## TECHNICAL PROPERTIES

|                                                             |                         |                                               |                             |
|-------------------------------------------------------------|-------------------------|-----------------------------------------------|-----------------------------|
| <b>Material</b>                                             | Biosoluble mineral wool | <b>Shot content</b><br>(PA 007-1) *           | < 20 %                      |
| <b>Colour</b>                                               | nature                  | <b>Fasionaire</b><br>(PA 007-1) *             | 170 ± 30                    |
| <b>Filament structure</b>                                   | glass (amorphous)       | <b>Biopersistance</b><br>(after i.t. test) ** | < 40 days<br>Half-life      |
| <b>Transformation temperature</b><br>(DIN ISO 7884-8)       | 654 °C                  | <b>Burnrate</b><br>(ISO 3795)                 | 0 mm/min                    |
| <b>Ignition loss (%)</b><br>(PA 007-2; based on ISO 1887) * | 6 ± 2                   | <b>Surface weight</b>                         | 500 - 1000 g/m <sup>2</sup> |

|                             |                  |                    |                                      |                 |                                      |              |
|-----------------------------|------------------|--------------------|--------------------------------------|-----------------|--------------------------------------|--------------|
| <b>CHEMICAL COMPOSITION</b> | SiO <sub>2</sub> | Al O <sub>23</sub> | Fe <sub>2</sub> O <sub>3</sub> total | MgO+CaO         | K <sub>2</sub> O + Na O <sub>2</sub> | MnO          |
| in % by weight              | <b>60,2 ± 2</b>  | <b>1,1 ± 1</b>     | <b>5,5 ± 1,5</b>                     | <b>28,1 ± 2</b> | <b>5,0 ± 1,5</b>                     | <b>≤ 1,1</b> |

|                                                          |       |           |            |            |            |            |            |
|----------------------------------------------------------|-------|-----------|------------|------------|------------|------------|------------|
| <b>Thermal conductivity</b><br>λ (DIN 52612-2)           | W/m*K | 0,028     | 0,034      | 0,049      | 0,071      | 0,101      | 0,140      |
| (mean temperature, ρ= 110 kg/m <sup>3</sup> , fibre 140) | °C    | <b>50</b> | <b>100</b> | <b>200</b> | <b>300</b> | <b>400</b> | <b>500</b> |

\* Internal DBW test specifications

A technical reject rate of 2-3 % cannot be avoided due to the manufacturing process and the associated partial agglomeration of the binder.

The above information does not constitute a guarantee of properties. The suitability for the respective intended use must be checked. Subject to change without notice