

## Technical Data Sheet

### **Fabric Type BAS UD 280.1350.P**

### **Tentative Specification**

Woven uni-directional fabric for composite applications, is entirely made of 100% BCF (basalt continuous filament).

The first code UD means uni-directional.

The second code 280 is the surface density in g/m<sup>2</sup>

The third code 0900 is the width of the fabric in mm. The third code indicates the weave.

The silane sizing is selected, which has components to ensure elasticity of the yarn during textile processes. It allows good compatibility with epoxy, vinylester and polyester resins systems.

| Property                         | Standard/Method         | Unit               | Value                                | Tolerance |
|----------------------------------|-------------------------|--------------------|--------------------------------------|-----------|
| <b>Base material</b>             |                         |                    |                                      |           |
| Density of unsized filament matl |                         | kg/dm <sup>3</sup> | 2.67                                 | + 5%      |
| Moisture content of basaltic roc |                         | %                  | 0.1                                  | + 0.05    |
| Melting point                    |                         | °C                 | 1350                                 | + 100     |
| <b>Fabric</b>                    |                         |                    |                                      |           |
| Specific surface weight          | ISO 3374:2000           | g/m <sup>2</sup>   | 280                                  |           |
| Weave type                       |                         |                    | Plain                                |           |
| Yarn density/type:               |                         |                    |                                      |           |
| - warp                           |                         | ends/cm            | 8.5 (290 tex)                        |           |
| - weft                           |                         | ends/cm            | 3.0 (90 tex)                         |           |
| Width                            | ISO 5025:1997           | mm                 | 1350                                 | -0/+20    |
| Thickness                        | ISO 4603:1993           | mm                 | ---                                  |           |
| Sizing type                      |                         |                    | silane                               |           |
| Breaking load:                   | ISO 4606:1995 – Type II |                    |                                      |           |
| - warp                           |                         | N/25mm             | >3100                                |           |
| - weft                           |                         | N/25mm             | > 513                                |           |
| Continuous temperature range     |                         | °C                 | 250°C – 550°C<br>1200°C fire barrier |           |
| Moisture content (fabric)        | ISO 3344:1997           | %                  | <0.3                                 |           |
| LOI, also sizing content         | ISO 1887:1995*          | %                  | 0.4 – 0.6                            |           |
| Combustibility                   | NF P92-503:1995         | MO                 | Pass                                 |           |
| UV stability                     | ISO 105-B02             |                    | 6                                    |           |
| Colour fastness                  | ISO 1005-BX12           |                    | 6                                    |           |

\* after drying according ISO 3344:1997

#### Packaging

Fabric length is approximately 100lm per roll. Other length on request. Roll tube has internal diameter of 55mm. Identification label. Standard packing.

#### Product Stability:

BASALTEX™ Products have not been designed for full external exposure conditions and cannot be guaranteed for use in such situations. However, these BASALTEX™ products have considerable tolerance to damp conditions and occasional water immersion. After drying out, the product will give the same level of performance as the original sample.

#### Stability over time:

Said products not being subjected to excessive heat, wear and abrasion, all evidence obtained to date indicates that their performance should not significantly change over a significant period of time.

It is the responsibility of the developer of the end-product, finished device or system to test its performance in the end-application.