



## Technical Information

### Location

Alpalhão, Nisa, Portalegre, Portugal

### Company

Filstone - Comércio de Rochas, S.A.

### Type/granulometry

Fine grained monzonitic granite, equigranular showing grey colour

### Mineralogy

35% Plagioclase, 30% Quartz, 25% K-feldspar, 10% accessory and alteration minerals (biotite, muscovite, zircon, sphene, apatite, opaque minerals and chlorite)

## Physical-Mechanical properties

Apparent density measurement

**2661,00 Kg/m<sup>3</sup>**

Open porosity measurement

**0,78%**

Water absorption measurement at normal atmospheric pressure

**0,29 %**

Uniaxial compressive strength in dry conditions

**248,50 MPa**

Uniaxial compressive strength after freeze/thaw test

**236,14 MPa**

Flexural strength under central load in dry conditions

**21,48 MPa**

Thermal linear expansion coefficient

**8,80 x 10<sup>-6</sup>/°C**

Amsler-Laffon abrasion test

**0,40 mm**

Impact test - drop height

**0,65-0,70 m**

## Chemical analysis

SiO<sub>2</sub>- 69,18 %

Al<sub>2</sub>O<sub>3</sub> - 15,57 %

Fe<sub>2</sub>O<sub>3</sub> total - 2,83%

MnO - 0,04%

CaO - 2,05 %

MgO - 0,83 %

Na<sub>2</sub>O- 3,87 %

K<sub>2</sub>O- 3,87 %

P<sub>2</sub>O<sub>5</sub> - 0,19 %

<sup>+</sup>H<sub>2</sub>O - 0,88 %

<sup>-</sup>H<sub>2</sub>O - 0,19 %

TiO<sub>2</sub> - 0,21 %