



GRANUMLUX
Granite Selection

Properties of materials

Granite Grey Corvaceira #9

Macroscopic Description	Granite of clear grey colour, of two micas and of granulated medium and homogeneous.	
Resistance mechanics to the compression	1915 kg/cm ²	187,8 MPa
Waited minium value	1542 kg/cm ²	151,2 MPa
Flexural Strength	129 kg/cm ²	12,7 MPa
Waited minium value	119 kg/cm ²	11,6 MPa
Resistance mechanics to the flexion after gelivity test	142 kg/cm ²	13,9 MPa
Waited minium value	123 kg/cm ²	12,1 MPa
Apparent volumic mass	2620 kg/cm ²	
Water absorption at normal atmospheric pressure	0,3%	
Open porosity	0,8%	
Resistance to the Capon consuming	12,5 mm	
Resistance to the shock	105 cm	
Frequancy of the longitudinal resonance	6760 Hz	
Resistance to the landslide	54USRV	
Resistance to the aging through thermal shock	After having been submitted to the 20 cycles praised by the norm, occurred, in all the test tubes, a fast lost of material in some small cristais of plagioclase zoned. The lost of mass was, in average, 0,005%.	
Petrography study	Granite of two micas and granulated medium (2 to 3mm); it presents homogeneous texture in sample oh hand, with one very fast porfiroide trend, coming from the matrix some megacristais of fieldspato of reduced dimension (up to 5x mm). Unchanged granite, with cinereous coloration - whitish.	
Resistance to Ice	At the end of the 240 cycles of ice-thawing, occurred, in all the test tubes, a fast lost of material in some of small cristais of plagioclase zoned. The decrease in the volume was not insignificant. The fast increment in the value of the resistance to the flexion corroborates the not iced behaviour of the rock.	