

PUMICE	
Moisture content	EN 1097-5
Density	ASTM C 188
Bulk density ("Unit weight")	ASTM C 29
Loose bulk density and voids	EN 1097-3
Particle density and water absorption	EN 1097-6
Water suction height	EN 1097-10
Particle size distribution - Sieving	EN 933-1
Particle size distribution - LASER diffraction	
Percentage of broken surfaces in coarse aggregates	EN 933-5
Lightweight aggregates - Crushing resistance	EN 13055-1 ann. A
Lightweight aggregates - Resistance to disintegration	EN 13055-1 ann. B
Lightweight aggregates - Resistance to freezing and thawing	EN 13055-1 ann. C EN 13055-2 ann. B
Organic contaminators by mortar method	EN 1744-1 cl. 15.3
Chemical analysis of main oxides (CaO, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , MgO, K ₂ O, Na ₂ O, TiO ₂ , SrO, P ₂ O ₅ , Mn ₂ O ₃ , ZnO, Cr ₂ O ₃)	XRF (as EN 196-2.2)
Cl, SO ₃ , total S	various, EN 1744
Watersoluble alkali, Cl, SO ₃	various
Acid soluble SO ₃	EN 1744-1 cl.12
Trace elements and heavy metals (As, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Sn, Tl, V, Zn, Hg)	AAS
Free silica	XRD
Reactive SiO ₂	
Reactivity in mixtures 80/20 with cement at 7-28-90 days	
Reactivity of pozzolana (with lime)	Greek reg. 244/80
Qualitative mineralogical analysis	XRD
Quantitative mineralogical analysis	XRD - Rietveld
Potential alkali reactivity of cement-aggregate combinations (Mortar bar method)	ASTM C 227
Potential alkali-silica reactivity of aggregates (Chemical method)	ASTM C 289