

O.C.O. Technology Ltd (Avonmouth)

October 2021 Test Certificate
Block Mix 0-16mm

EN 13055-1

Lightweight aggregates obtained by processing natural, manufactured or recycled materials and mixtures of these aggregates for use in concrete, mortar and grout

	Average	Declared	
Acid soluble sulfate ¹	3.90	<4	(%)
Apparent density ²	2.9	NPD	
Bulk density ²	1131	1100±100	(kg/m ³)
Compressive strength ³	0.16	>0.1	(Mpa)
Crushing resistance ⁴	21.44	>5	(N/mm ²)
Dioxin	68.80	<600	(ng/kg)
Leaching ⁵			
As	<0.01	<0.5	(mg/kg)
Ba	14.83	<50	(mg/kg)
Cd	<0.001	<0.04	(mg/kg)
Cr	2.57	<1.5	(mg/kg)
Cu	0.03	<0.15	(mg/kg)
Hg	<0.01	NPD	(mg/kg)
Mo	0.40	<1	(mg/kg)
Ni	<0.01	<0.4	(mg/kg)
Pb	1.04	<3	(mg/kg)
Sb	<0.01	<0.06	(mg/kg)
Se	<0.02	<0.1	(mg/kg)
Zn	0.21	<3.5	(mg/kg)
Cl	56.33	<75	(g/kg)
SO ₄	2.37	<5	(g/kg)
Los Angeles ²	45	NPD	(%)
Magnesium sulfate ⁶	1.00	<18	(%)
Oven dried density ²	1.75	NPD	
Oxidisable sulfides ¹	0.20	NPD	(%)
Particle size ⁷			
50mm	100		(% passing)
40mm	100		(% passing)
31.5mm	100		(% passing)
20mm	100		(% passing)
16mm	99.1	>90	(% passing)
10mm	81.10		(% passing)
8mm	66.85		(% passing)
6.3mm	50.45		(% passing)
4mm	22.67		(% passing)
2mm	7.76		(% passing)
1mm	3.37	<10	(% passing)
63um	0.54		(% passing)
Saturated density ²	2.15	NPD	
Total sulfur ¹	1.50	<2	(%)
Water absorption ²	33.55	20±4	(%)
Water content ²	13.93	NPD	(%)
Water soluble chloride ¹	3.70	<7.5	(%)
Water soluble sulfate ¹	0.20	<0.5	(%)

¹ BS EN 1744, ² BS EN 1097, ³ End of Waste method, ⁴ BS EN 13055, ⁵ BS EN 12457, ⁶ BS EN 1367, ⁷ BS EN 933