



1077

Baumineral GmbH Hiberniastrasse 12 456 99 Herten
EON Kraftwerke GmbH Wilhelmshafen

1077-CPD-203001

EN 450-1

Fly ash for concrete

Characteristics	Method	Requirement according to 450-1(limit single result)	Declared values
Loss of ignition (Category A)	EN 196-2	≤ 5,0 (7,0)	
Chloride (Cl ⁻)	EN 196-21	≤ 0,10	
Sulfuric anhydride (SO ₃)	EN 196-2	≤ 3,0 (3,5)	
Free calcium oxide (CaO)	EN 451-1	≤ 1,0/ ≤ 2,5 (2,6)	
Reactive calcium oxide (CaO)	EN 197-1	≤ 10,0 (11,0)	
Fineness retained on 0,045 mm (Category N) variation	EN 451-2	≤ 40 (45) Declared value ±10 (15)% points	27
Activity index 28 days	EN 196-1	≥ 75 (70)	
90 days		≥ 85 (80)	
Soundness	EN 196-3	≤ 10,0 mm	
Particle density	EN 196-6	Declared value ±200 (225) kg/m ³	2310 kg/m ³
Reactive silicon dioxide (SiO ₂)	EN 197-1	≥ 25 (22)	
Silicon dioxide SiO ₂ /Aluminium oxide Al ₂ O ₃ /Iron oxide Fe ₂ O ₃	EN 196-2	≥ 70 (65)	
Total content Alkali (Na ₂ O _{aeqv})	EN 196-2	≤ 5,0 (5,5)	
Magnesium oxide (MgO)	EN 196-2	≤ 4,0 (4,5)	
Soluble phosphate (P ₂ O ₅)	EN 450-1	≤ 100 (110) mg/kg	
Initial setting time	EN 196-3	+120 (140) min	

Remarks:

Values unspecified in percent by mass.

Values required according to standard are statistical and within brackets upper or lower limit values for single results. Declared values are average or characteristic values.



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EN 450-1:2005
Flyash for concrete
Fineness category N
Particle density 2310 kg/m³
Loss of ignition category A
No dangerous substances

