



0432

KNG Kraftwrks- und Netzgesellschaft mbH Am Kühlturm 18147 Rostock  
Kraftwerk Rostock block 1

01

0432-CPD-220000209

EN 450-1

Fly ash for concrete

Characteristics	Method	Requirement according to 450-1	Declared values
Loss of ignition (Category A)	EN 196-2	$\leq 5,0$ (7,0)	
Chloride ( $\text{Cl}^-$ )	EN 196-21	$\leq 0,10$	
Sulfuric anhydride ( $\text{SO}_3$ )	EN 196-2	$\leq 3,0$ (3,5)	
Free calcium oxide (CaO)	EN 451-1	$\leq 1,0 / \leq 2,5$ (2,6)	
Reactive calcium oxide (CaO)	EN 197-1	$\leq 10,0$ (11,0)	
Fineness retained on 0,045 mm (Category N) variation	EN 451-2	$\leq 40$ (45) Declared value $\pm 10$ (15)% points	16
Activity index	28 days	$\geq 75$ (70)	
		90 days	$\geq 85$ (80)
Soundness	EN 196-3	$\leq 10,0$ mm	
Particle density	EN 196-6	Declared value $\pm 200$ (225) $\text{kg/m}^3$	2100 $\text{kg/m}^3$
Reactive silicon dioxide ( $\text{SiO}_2$ )	EN 197-1	$\geq 25$ (22)	
Silicon dioxide $\text{SiO}_2$ /Aluminium oxide $\text{Al}_2\text{O}_3$ /Iron oxide $\text{Fe}_2\text{O}_3$	EN 196-2	$\geq 70$ (65)	
Total content Alkali ( $\text{Na}_2\text{O}_{\text{aekv}}$ )	EN 196-2	$\leq 5,0$ (5,5)	
Magnesium oxide (MgO)	EN 196-2	$\leq 4,0$ (4,5)	
Soluble phosphate ( $\text{P}_2\text{O}_5$ )	EN 450-1	$\leq 100$ (110) $\text{mg/kg}$	
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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0432-CPD-220000209/01  
EN 450-1:2005  
Flyash for concrete  
Fineness category N  
Particle density 2100  $\text{kg/m}^3$   
Loss of ignition category A  
No dangerous substances