



1077

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01

1077-CPD-204001

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  | $\leq 5,0$ (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)<br>Declared value $\pm 10$ (15)% points | 21                   |
| Activity index  | EN 196-1  | $\geq 75$ (70)   |                      |
| 28 days   |           | $\geq 85$ (80)   |                      |
| 90 days   |           |  |                      |
| Soundness   | EN 196-3  | $\leq 10,0$ mm   |                      |
| Particle density  | EN 196-6  | Declared value $\pm 200$ (225) $\text{kg/m}^3$         | 2300 $\text{kg/m}^3$ |
| 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) 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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1077-CPD-204001  
EN 450-1:2005  
Flyash for concrete  
Fineness category N  
Particle density 2300  $\text{kg/m}^3$   
Loss of ignition category A  
No dangerous substances