

DIN EN 450-1:2008-05 (E)

Fly ash for concrete - Part 1: Definition, specifications and conformity criteria (includes Amendment A1:2007)

Contents		Page
Foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	Specific provisions for fly ash from co-combustion	8
4.1	Co-combustion materials	8
4.2	Establishment of suitability of fly ash from co-combustion	9
4.3	Environmental compatibility	9
5	Specifications	9
5.1	General	9
5.2	Chemical requirements	10
5.3	Physical requirements	11
5.4	Other requirements	12
5.5	Information to be supplied upon request	13
6	Packaging and labelling	13
7	Sampling	13
8	Conformity Criteria	14
8.1	General requirements	14
8.2	Statistical conformity criteria	16
8.3	Single result conformity criteria	18
Annex A (normative) Release of dangerous substances and emission of radioactivity		20
Annex B (normative) Method of determining the water requirement for Category S fly ash		21
Annex C (normative) Determination of the content of soluble phosphate (expressed as P ₂ O ₅)		23
C.1	Principle of the method	23
C.2	Sample for analysis	23
C.3	Reagents	23
C.4	Apparatus	23
C.4	Procedure	23
C.6	Calculation	24
C.7	Report	24
Annex ZA (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives		25
Bibliography		33
Figures Figure ZA.1 -- Example CE marking information		31

Tables Table 1 -- Types of co-combustion materials	9
Table 2 -- Properties, test methods and minimum testing frequencies for the autocontrol testing by the producer or his agent and the statistical assessment procedure	14
Table 3 -- Acceptability constant k_A ($P_k = 10\%$) at $CR = 5\%$	17
Table 4 -- Values of c_A ($P_k = 10\%$) at $CR = 5\%$	18
Table 5 -- Limit values for single results	19
Table B.B1 -- Mix proportions	21
Table ZA.1 -- Relevant clauses and intended use	26
Table ZA.2 -- System of attestation of conformity	28
Table ZA.3 -- Assignment of evaluation of conformity tasks for fly ash under system 1+	29