

# DIN EN 15743:2010-04 (E)

## Supersulfated cement - Composition, specifications and conformity criteria

---

<b>Contents</b>		<b>Page</b>
Foreword .....		4
Introduction .....		5
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	6
4	Supersulfated cement .....	8
5	Constituents .....	8
5.1	Main constituents .....	8
5.1.1	Granulated blastfurnace slag (S) .....	8
5.1.2	Calcium sulfate (Cs) .....	8
5.2	Additional constituents .....	8
5.2.1	Portland cement clinker (K) .....	8
5.2.2	Other additional constituents (A) .....	8
5.3	Additives .....	9
6	Composition and notation .....	9
7	Mechanical, physical, chemical and durability requirements .....	10
7.1	Mechanical requirements .....	10
7.1.1	Standard strength .....	10
7.1.2	Early strength .....	10
7.2	Physical requirements .....	10
7.2.1	Initial setting time .....	10
7.2.2	Soundness .....	10
7.2.3	Heat of hydration .....	10
7.3	Chemical requirements .....	11
7.4	Durability requirements .....	11
7.4.1	General .....	11
7.4.2	Sulfate resistance .....	11
8	Standard designation .....	11
9	Conformity criteria .....	12
9.1	General requirements .....	12
9.2	Conformity criteria for mechanical, physical and chemical properties and evaluation procedure .....	12
9.2.1	General .....	12
9.2.2	Statistical conformity criteria .....	13
9.2.3	Single result conformity criteria .....	15
9.3	Conformity criteria for cement composition .....	15
9.4	Conformity criteria for properties of the cement constituents .....	16
Annex A (informative)	Precautions related to the use of supersulfated cement .....	17
A.1	Blending with other binders .....	17
A.2	Use of additions in concrete .....	17

<b>A.3</b>	<b>Effects of weather, striking and curing .....</b>	<b>17</b>
<b>A.4</b>	<b>Heat treatment .....</b>	<b>17</b>
<b>Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU</b>		
	<b>Construction Products Directive .....</b>	<b>18</b>
<b>ZA.1</b>	<b>Scope and relevant characteristics .....</b>	<b>18</b>
<b>ZA.2</b>	<b>Procedure for attestation of conformity of supersulfated cements .....</b>	<b>20</b>
<b>ZA.2.1</b>	<b>System of attestation of conformity .....</b>	<b>20</b>
<b>ZA.2.2</b>	<b>EC Certificate and Declaration of conformity .....</b>	<b>21</b>
<b>ZA.3</b>	<b>CE marking and labelling .....</b>	<b>21</b>
<b>ZA.3.1</b>	<b>General .....</b>	<b>21</b>
<b>ZA.3.2</b>	<b>Bagged cement .....</b>	<b>22</b>
<b>ZA.3.3</b>	<b>Bulk cement .....</b>	<b>23</b>
	<b>Bibliography .....</b>	<b>24</b>