



Soil Property Testing Ltd.

Materials Division



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MPT INFORMATION PAPER –April 2008

AGGREGATES FOR CONCRETE - BS EN12620:2002 (E)

SEE ALSO AGGREGATES Published Document PD6682-1:2002

TESTING REQUIRED FOR COMPLIANCE TO EUROPEAN STANDARDS. (Grading to BS EN 933 -1)

Grading designation d/D ie 0/10 10mm all in or 4/40 4 to 40mm etc

	Test	Method	Amount reqd.	Compliance
1	Particle Size Distribution	BS EN 933-1	See Table 7/3	Coarse Aggregate D >4mm d >=2mm Fine Aggregate D <=4mm
2	Flakiness Index	BS EN 933-3		Category <i>FI</i>
3	Shell content of coarse aggregate	BS EN 933-7		Category <i>SC</i>
5	Fines Content	BS EN 933-1		Category <i>f</i>
6	Resistance to Fragmentation – Los Angeles Test	BS EN 1097-2:1998	10kg – passing 14mm retained 10mm	<i>LA</i>
7	Resistance to wear of coarse Aggregate - Micro Deval Coefficient	BS EN 1097-1		<i>M_{DE}</i>
8	Resistance to Polishing - Polished Stone Value	BS EN 1097-8		<i>PSV</i>
9	Resistance to surface abrasion _ Aggregate Abrasion Value	BS EN 1097-8 Annex A		<i>AAV</i>
10	Resistance to Freezing and Thawing – Magnesium Sulphate Soundness Test	BS EN 1367-2:1998	10kg – passing 14mm retained 10mm	<i>MS₃₅</i>
	OTHER TESTS REQUIRED FOR PARTICULAR CONDITIONS			<i>Guidance in Published Document PD6682-1:2003</i>
A	Volume stability – drying shrinkage	BS EN 1367-4		<0.075%
B	Chlorides- Water sol chloride ion	BS EN 12620:2002		<0.01%
C	Acid soluble Sulfate	BS EN 12620:2002		Table 5 pd6682
D	Total sulfur	BS EN 12620:2002	2kg	SHW Clause 801
E	Volume stability of air cooled blast furnace slag	BE EN 12620:2002 & 19.2		
F	Carbonate content of fine aggregate	BS EN 12620:2002		