

SABLE NORMALISE CEN
CERTIFIE CONFORME –
EN 196.1 par l'AFNOR et conforme ISO 679

STANDARD SAND BS 1881: Part 131 Premixed sand

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Methods for testing cement in a reference concrete

1- CHARACTERISTICS

BS 1881: part 131 gives methods for testing cement in a reference concrete. Reference concrete uses 5 fractions of sand, A, B, C, D and E, to be used in required proportions and 1 fraction of coarse aggregate. SNL can supply the 5 fractions of sand premixed ready for use in bag of 1.375 kg. Mass proportioning of each sand fraction is conformed to BS 1881: Part 131 (table 1 – Mix 1), that is to say:

- 10 % A
- 20 % B
- 30 % C
- 25 % D
- 15 % E

This sand is from natural siliceous sources, having water content lower than 0.1 %. The constituent grains of sands are uncrushed and rounded form. The sand fractions are dried, screened according to the grading of figure B.1 (annex B of BS 1881: part 131).

The final premix sand is packaged in a polyethylene bags containing 1375 ± 5 g. When you need to prepare reference concrete for manufacturing 3 cubes of concrete you will use:

- 1100 g of cement to be tested
- 2 bags of premix sand ready for use
- 3850 g of coarse aggregates
 - 660 g of water

Bags are packaged in box of 16 bags weighing 22.3 kg, and boxes on pallet from 2 to 54 boxes ☒ maximum gross weight of 1 221 kg, suitably protected by a polyethylene cover (land transport) or reinforced boxes (shipping).

2- CONTROLS

Gradings of each sand fraction used to prepare the premix are as follows:

Square mesh size (mm)	Cumulative passing (%)				
	BS 1881 – part 131 -fractions				
	A	B	C	D	E
3,35	100				
2,36	90 to 100	100			
1,18	0 to 15	90 to 100	100		
0,60	0	0 to 15	90 to 100	100	
0,30		0	0 to 15	90 to 100	100
0,15			0	0 to 15	90 to 100
0,09				0	0 to 15

Before performing the premix, fraction gradings are controlled by 200 kg batches of prepared fraction sand. Water content is controlled every 1000 kg batches

Controls are performed by S.N.L. laboratory.