

APPENDIX A

TYPICAL ANALYSES OF DIFFERENT TYPES OF CEMENT
CURRENTLY AVAILABLE IN THE UNITED KINGDOM

%	Portland cement			Portland- blast- furnace cement BS 146§	Super- sulphated cement BS 4248	High alumina cement BS 915¶
	Ordinary and rapid- hardening BS 12*	Sulphate- resisting BS 4027†	Low heat BS 1370‡			
SiO ₂	20.7	21.0	25.0	25.0	27.0	4.2
Fe ₂ O ₃	2.5	5.7	3.0	1.2	—	9.9
FeO	—	—	—	1.0	0.7	4.9
Al ₂ O ₃	5.5	3.5	4.0	9.5	14.0	40.0
CaO	64.5	64.0	61.0	55.0	45.0	38.0
MgO	1.0	1.0	1.0	2.5	3.0	0.3
SO ₃	2.75	2.0	2.5	1.8	6.0	0.1
Loss	2.0	2.0	2.0	1.5	0.5	0.2
Na ₂ O	0.2	0.2	0.2	0.3	0.3	0.2
K ₂ O	0.6	0.6	0.6	0.7	1.0	0.2
TiO ₂	0.3	0.3	0.3	0.3	0.5	1.9
Mn ₂ O ₃	0.1	0.1	0.1	0.5	1.2	0.1
S	—	—	—	0.3	1.0	—

NOTE. These values are subject to variation of at least $\pm 10\%$ with the exception of CuO content of Portland and high alumina cements, and Al₂O₃ content of high alumina cements which are probably subject to variations not greater than $\pm 5\%$.

* BS 12, 'Portland cement (ordinary and rapid-hardening)'.

† BS 4027, 'Sulphate-resisting Portland cement'.

‡ BS 1370, 'Low heat Portland cement'.

§ BS 146, 'Portland-blastfurnace cement'.

|| BS 4248, 'Supersulphated cement'.

¶ BS 915, 'High alumina cement'.