



## Performance Criteria for an ASTM Xrf Standard Test Method for Chemical Analysis of Hydraulic Cements: Inter-Laboratory Study Cements E and F

By NIST

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 156 pages. Dimensions: 11.0in. x 8.5in. x 0.4in. Bulk oxide determinations from a pair of port-land cements provides the basis for calculation precision and accuracy values for X-ray fluorescence (XRF) analysis for both the fused glass bead and the pressed powder sample preparation. This report is the second in a series on an Inter-laboratory study on chemical analyses of hydraulic cements by X-ray fluorescence for the purpose of estimating precision and qualification criteria. Approximately 45 laboratories provided six replicates analyzed in duplicate for two separate port-land cements containing ca. 5 limestone, covering fifteen analytes, CaO, SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, SO<sub>3</sub>, MgO, Na<sub>2</sub>O, K<sub>2</sub>O, TiO<sub>2</sub>, P<sub>2</sub>O<sub>5</sub>, Mn<sub>2</sub>O<sub>3</sub>, SrO, ZnO, Cr<sub>2</sub>O<sub>3</sub>, and Cl, with the laboratories roughly split between the two different sample preparations. Chemical data using traditional chemical analyses (the Reference Methods) from the Cement and Concrete Reference Laboratory (CCRL) proficiency test program were included for comparison to the XRF results. This item ships from La Vergne, TN. Paperback.



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