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## Concurrent Determination of Magnesium and Calcium in Iron Ores by Atomic Absorption Spectroscopy\*

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### Abstract

Examinations were made for the concurrent determination of magnesium and calcium in iron ores when present in about equal amounts, using the magnesium-calcium coupled type hollow-cathode lamp in atomic absorption spectroscopy, and a method of measurement was established. Concurrent determination was found to be easily possible by removal of the majority of iron by extraction with methyl isobutyl ketone and addition of strontium. Analytical precision was calculated and found to give satisfactory results (standard deviations:  $\pm 0.004\%$  for Ca,  $\pm 0.006\%$  for Mg).

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\* The **1415th** report of the Research Institute for Iron, Steel and Other Metals. Published in the *Zeitschrift für analytische Chemie*, **234** (1968), 333.