

Sampling and analysis of iron, steel and other ferrous metals —

Part 3: Methods of analysis —

Section 3.11 Determination of cobalt —

Subsection 3.11.2 Steel, irons and steelmaking materials: spectrophotometric method for trace amounts

Confirmed November 2008

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Iron and Steel Standards Policy Committee (ISM/-) to Technical Committee ISM/18, upon which the following bodies were represented:

- BCIRA
- British Steel Industry
- Department of Trade and Industry (Laboratory of the Government Chemist)
- Ferro Alloys and Metals Producers' Association
- Ministry of Defence

This British Standard, having been prepared under the direction of the Iron and Steel Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 20 December 1991

© BSI 09-1999

The following BSI references relate to the work on this standard:
Committee reference ISM/18
Draft for comment 91/38344 DC

ISBN 0 580 20228 3

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Committees responsible	Inside front cover
Foreword	ii
1 Scope	1
2 Principle	1
3 Reagents	1
4 Apparatus	1
5 Sampling	1
6 Procedure	1
7 Calculation and expression of results	3
8 Test report	4
Appendix A Application to steelmaking materials	5
Table 1 — Calibration data for optical path lengths, additions of cobalt solution (3.2) and equivalent cobalt percentage by mass	3
Table 2 — Precision data from steels and irons	3
Table 3 — Regression data for steels and irons: values for inter-laboratory agreement (2.83S _b , <i>P</i> = 95 %)	4
Table 4 — Precision data from steelmaking materials	5
Table 5 — Regression data for steelmaking materials: values for inter-laboratory agreement (2.83S _b , <i>P</i> = 95 %)	5
Publication(s) referred to	Inside back cover

Foreword

This Subsection of BS 6200 has been prepared under the direction of the Iron and Steel Standards Policy Committee and supersedes method 2 for the determination of cobalt in BSI Handbook No. 19, to which it is technically equivalent.

BS 6200 is a multipart British Standard, covering all aspects of the sampling and analysis of iron, steel and other ferrous metals. A list of contents, together with general information, is given in Part 1.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.