

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

Part 3: Methods of analysis —

Section 3.26 Determination of silicon —

Subsection 3.26.3 Steel and cast iron: Spectrophotometric method for silicon contents from 0.05 % (*m/m*) to 1.0 % (*m/m*)

[ISO title: Steel and cast iron — Determination of total silicon content — Reduced molybdosilicate spectrophotometric method — Part 1: Silicon contents between 0,05 and 1,0 %]

The European Standard EN 24829-1:1990 has the status of a British Standard

UDC 669.1:543.42:546.28

National foreword

This Subsection of BS 6200 has been prepared under the direction of the Iron and Steel Standards Committee.

It is identical with ISO 4829-1:1986 “*Steel and cast iron — Determination of total silicon content — Reduced molybdosilicate spectrophotometric method — Part 1: Silicon contents between 0,05 and 1,0 %*”, published by the International Organization for Standardization (ISO), and supersedes method 4 for the determination of silicon in BSI Handbook No. 19.

In 1990 the European Committee for Standardization (CEN) accepted ISO 4829-1:1986 as European Standard EN 24829-1:1990.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following. The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker. Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

Cross-reference. The Technical Committee has reviewed the provisions of ISO 377, to which reference is made in clause 6, and has decided that they are acceptable for use in conjunction with this standard.

A related British Standard to ISO 377 is BS 1837 “*Methods for the sampling of iron, steel, permanent magnet alloys and ferro-alloys*”. Appropriate procedures from ISO 377 will be incorporated in BS 6200-2 “*Methods of sampling and sample preparation*”, which will be published in due course and which will supersede BS 1837.

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, the EN title page, pages 2 to 10, 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.

This British Standard, having been prepared under the direction of the Iron and Steel Standards Committee, was published under the authority of the Board of BSI and comes into effect on 30 September 1987

© BSI 10-1999

The following BSI references relate to the work on this standard:
Committee reference ISM/18
Draft for comment 85/41149 DC

ISBN 0 580 16104 8

Amendments issued since publication

Amd. No.	Date of issue	Comments
7077	February 1992	Indicated by a sideline in the margin

Contents

	Page
National foreword	Inside front cover
Brief history	2
Text of EN 24829-1	3
Publications referred to	Inside back cover

UDC 669.1:543.42:546.28

Descriptors: Steels, cast iron, chemical analysis, determination of content, silicon, spectrophotometric analysis, molybdosilicate

English version

Steel and cast iron — Determination of total silicon
content —
Reduced molybdosilicate spectrophotometric method —
Part 1: silicon content between 0,05 and 1 %

(ISO 4829-1:1986)

Aciers et fontes — Détermination de la teneur
en silicium total — Méthode
spectrophotométrique par molybdosilicate
réduit —

Partie 1: teneur en silicium entre 0,05 et 1 %
(ISO 4829-1:1986)

Stahl und Gußeisen — Bestimmung
Gesamtsiliciumgehalts —

Spectrophotometrisches Verfahren mittels
reduzierten Molybdosilicats —

Teil 1: Siliciumgehalt zwischen 0,05 und 1 %
(ISO 4829-1:1986)

This European Standard was approved by CEN on 1989-11-27. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards organizations of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

© CEN 1990 Copyright reserved to all CEN members