

Method for

Identification of antidegradants in rubber and rubber products by thin layer chromatography

[ISO title: Rubber and rubber products — Guide to the
identification of antidegradants — Thin layer chromatographic
methods]

UDC 678.06:543.544.062:678.041.2

Confirmed September 2010

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

BSI
Documents

AVA

Document Sharing Hub

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Rubber Standards Committee (RUM/-) to Technical Committee RUM/37, upon which the following bodies were represented:

- British Rubber Manufacturers' Association
- Electric Cable Makers' Confederation
- Institution of Water Engineers and Scientists
- Malaysian Rubber Producers' Research Association
- Ministry of Defence
- National College of Rubber Technology
- Royal Society of Chemistry
- Rubber and Plastics Research Association of Great Britain

This British Standard, having been prepared under the direction of the Rubber Standards Committee, was published under the authority of the Board of BSI and comes into effect on 30 August 1985

© BSI 12-1999

The following BSI references relate to the work on this standard:
Committee reference RUM/37
Draft for comment 78/52476 DC

ISBN 0 580 14567 0

Amendments issued since publication

Amd. No.	Date of issue	Comments
6698	April 1991	Indicated by a sideline in the margin

Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
1 Scope and field of application	1
2 Reference	1
3 Principle	1
4 Reagents	1
5 Apparatus	2
6 Preparation of developing tank and plates	2
7 Preparation of test portion	3
8 Plate spotting	3
9 Plate development	4
10 Colour development on the plate	4
11 Standard chromatograms	5
12 Test report	5
Annex Preliminary spot tests	6
Publication referred to	Inside back cover

National foreword

This British Standard has been prepared under the direction of the Rubber Standards Committee. It is identical with ISO 4645:1984 “*Rubber and rubber products — Guide to the identification of antidegradants — Thin layer chromatographic methods*”, published by the International Organization for Standardization (ISO).

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.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

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.

Cross-reference

International Standard	Corresponding British Standard
ISO 1407:1976	BS 1673 <i>Methods for testing raw rubber and unvulcanized compounded rubber</i> Part 2:1967 <i>Chemical analysis of raw natural rubber</i> (Technically equivalent)

Textual errors. The textual errors listed below have been discovered. They have been reported to ISO in a proposal to amend the text of the International Standard.

A.2.2. The second sentence should read:

Most phenolic compounds, except hindered phenols, give a red colour. Phenolic resins give a red colour.

A.2.5. The second and third sentences should read:

Dialkylphenylenediamines give a pink colour, alkylarylphenylenediamines give a blue colour, and diarylphenylenediamines give a green colour.

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.