



BSI Standards Publication

Leather - Chemical determination of chromic oxide content

Part 3: Quantification by atomic absorption spectrometry

National foreword

This British Standard is the UK implementation of EN ISO 5398-3:2018. It is identical to ISO 5398-3:2018. It supersedes BS EN ISO 5398-3:2007, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee TCI/69, Footwear & Leather.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2018
Published by BSI Standards Limited 2018

ISBN 978 0 580 98546 1

ICS 59.140.30

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2018.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

English Version

**Leather - Chemical determination of chromic oxide
content - Part 3: Quantification by atomic absorption
spectrometry (ISO 5398-3:2018)**

Cuir - Dosage chimique de l'oxyde de chrome
- Partie 3: Quantification par spectrométrie
d'absorption atomique (ISO 5398-3:2018)

Leder - Chemische Bestimmung des
Chromoxidgehalts - Teil 3: Bestimmung durch
Atomabsorptionsspektrometrie (ISO 5398-3:2018)

This European Standard was approved by CEN on 8 June 2018.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

This document (EN ISO 5398-3:2018) has been prepared by Technical Committee [IULTCS](#) "International Union of Leather Technologists and Chemists Societies" in collaboration with Technical Committee CEN/TC 289 "Leather" the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2019, and conflicting national standards shall be withdrawn at the latest by January 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 5398-3:2007.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 5398-3:2018 has been approved by CEN as EN ISO 5398-3:2018 without any modification.

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
5 Sampling and sample preparation	2
6 Reagents	2
6.1 Reagents for wet oxidation method	2
6.2 Reagents for atomic absorption spectrometry	2
7 Apparatus	2
8 Methods	3
8.1 Preparation of analytical solution	3
8.1.1 Wet oxidation method	3
8.1.2 Microwave digestion method	3
8.2 Measurement of the aqueous solution	3
8.2.1 General	3
8.2.2 Preparation of calibration graph	3
8.2.3 Analysis of the test solution	3
9 Calculation and expression of results	4
10 Test report	4
Annex A (informative) Determination of water and other volatile matter	5
Annex B (informative) Suitable atomic absorption spectrometry (AAS) equipment	6