

First edition
2012-08-15

Footwear — Critical substances potentially present in footwear and footwear components — Determination of organotin compounds in footwear materials

Chaussures — Substances critiques potentiellement présentes dans les chaussures et les composants de chaussures — Détermination des composés organostanniques dans les matériaux de chaussures



Reference number
ISO/TS 16179:2012(E)

© ISO 2012



COPYRIGHT PROTECTED DOCUMENT

© ISO 2012

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Principle	1
4 Reagents	1
5 Apparatus and materials	2
6 Preparation of the test piece	3
7 Procedure	3
7.1 Preparation of the sodium tetraethylborate solution	3
7.2 Preparation of standard solutions	4
7.3 Preparation of the tropolone solution	5
7.4 Preparation of the buffer solution	5
7.5 Calibration	5
7.6 Sample preparation	6
7.7 Preparation of the blank solution	6
7.8 Gas chromatography	6
7.9 Quantification	7
7.10 Detection limit and quantification limit	8
8 Test report	8
Annex A (informative) Suggested gas chromatography-mass spectrometry (GC-MS) conditions for organotin analysis	10
Annex B (informative) Reliability of the method	11
Bibliography	12