

# DRAFT INTERNATIONAL STANDARD

## ISO/DIS 1518-1

ISO/TC 35/SC 9

Secretariat: BSI

Voting begins on:  
2022-04-29

Voting terminates on:  
2022-07-22

---

---

## Paints and varnishes — Determination of scratch resistance —

### Part 1: Constant-loading method

*Peintures et vernis — Détermination de la résistance à la rayure —  
Partie 1: Méthode à charge constante*

ICS: 87.040

ISO/DIS 1518-1 - Preview only Copy via ILNAS e-Shop

This document is circulated as received from the committee secretariat.

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENT AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

RECIPIENTS OF THIS DRAFT ARE INVITED TO SUBMIT, WITH THEIR COMMENTS, NOTIFICATION OF ANY RELEVANT PATENT RIGHTS OF WHICH THEY ARE AWARE AND TO PROVIDE SUPPORTING DOCUMENTATION.

**ISO/CEN PARALLEL PROCESSING**



Reference number  
ISO/DIS 1518-1:2022(E)

© ISO 2022



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2022

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

	Page
Foreword.....	iv
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Principle</b> .....	<b>2</b>
<b>5 Apparatus</b> .....	<b>2</b>
<b>6 Sampling</b> .....	<b>3</b>
<b>7 Test panels</b> .....	<b>4</b>
7.1 Substrate.....	4
7.2 Preparation and coating.....	4
7.3 Drying and conditioning.....	4
7.4 Thickness of coating.....	5
<b>8 Procedure</b> .....	<b>5</b>
8.1 Test conditions.....	5
8.2 General test procedure.....	5
8.3 Procedure for a single specified load (“pass/fail” test).....	5
8.4 Procedure for determination of the minimum load to cause penetration.....	5
8.5 Evaluation of the scribe.....	6
<b>9 Precision</b> .....	<b>6</b>
<b>10 Test report</b> .....	<b>6</b>
<b>Annex A (informative) Comparison of designation of the scratch styli in the different editions of ISO 1518-1</b> .....	<b>8</b>
<b>Bibliography</b> .....	<b>9</b>