
**Determination of flash point — Abel
closed-cup method**

Détermination du point d'éclair — Méthode Abel en vase clos





COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

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
Website: www.iso.org

Published in Switzerland

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Chemicals and materials	2
6 Apparatus	2
7 Apparatus preparation	3
7.1 Location of the apparatus.....	3
7.2 Cleaning the test cup.....	3
7.3 Apparatus examination.....	3
7.4 Heating and cooling.....	3
7.4.1 Liquid baths.....	3
7.4.2 Solid metal baths.....	3
7.4.3 Test cup and cover.....	3
7.5 Apparatus verification.....	4
8 Sampling	4
9 Sampling handling	5
9.1 General.....	5
9.2 Subsampling.....	5
9.3 Samples containing undissolved water.....	5
9.4 Sample mixing.....	5
10 Procedure	5
11 Calculation	6
12 Expression of results	7
13 Precision	7
13.1 General.....	7
13.2 Repeatability, <i>r</i>	7
13.3 Reproducibility, <i>R</i>	8
14 Test report	8
Annex A (normative) Abel flash point apparatus	9
Annex B (normative) Positioning and fixing of test cup and heating vessel thermometers into thermometer collar	16
Annex C (normative) Temperature measuring device specifications	18
Annex D (normative) Apparatus verification	20
Annex E (informative) Flash point values of chemicals	23
Bibliography	24