# DIN EN ISO 2719:2016-11 (E)

## Determination of flash point - Pensky-Martens closed cup method (ISO 2719:2016)

## Contents

Page


**European foreword** ... **3**

**Foreword** ... **4**

**Introduction** ... **5**

**1 Scope** ... **6**

**2 Normative references** ... **6**

**3 Terms and definitions** ... **7**

**4 Principle** ... **7**

**5 Chemicals and materials** ... **7**

**6 Apparatus** ... **7**

**7 Apparatus preparation** ... **8**
7.1 General ... 8
7.2 Location of the apparatus ... 8
7.3 Cleaning the test cup ... 8
7.4 Apparatus assembly ... 8
7.5 Apparatus verification ... 8

**8 Sampling** ... **9**

**9 Sample handling** ... **9**
9.1 Petroleum products ... 9
9.1.1 Sub-sampling ... 9
9.1.2 Samples containing undissolved water ... 9
9.1.3 Samples that are liquid at ambient temperature ... 9
9.1.4 Samples that are very viscous, semi-solid or solid at ambient temperature ... 9
9.2 Paints and varnishes ... 10

**10 Procedure** ... **10**
10.1 General ... 10
10.2 Procedure A ... 10
10.3 Procedure B ... 11
10.4 Procedure C ... 12

**11 Calculation** ... **13**
11.1 Conversion of barometric pressure reading ... 13
11.2 Correction of observed flash point to standard atmospheric pressure ... 13

**12 Expression of results** ... **13**

**13 Precision** ... **13**
13.1 General ... 13
13.2 Repeatability, ***r*** ... 13
13.3 Reproducibility, ***R*** ... 14

**14 Test report** ... **15**

**Annex A** (informative) **Apparatus verification** ... **16**

**Annex B** (normative) **Pensky-Martens closed cup test apparatus** ... **19**

**Annex C** (normative) **Temperature measuring device specification** ... **25**

**Bibliography** ... **27**