

ISO 2719:2002-11 (E)

Determination of flash point - Pensky-Martens closed cup method

| Contents | | Page |
|--|---|-------------|
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Term and definition | 2 |
| 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 assembly | 3 |
| 7.4 | Apparatus verification | 3 |
| 8 | Sampling | 3 |
| 9 | Sample handling | 4 |
| 9.1 | Petroleum products | 4 |
| 9.1.1 | Subsampling | 4 |
| 9.1.2 | Samples containing undissolved water | 4 |
| 9.1.3 | Samples that are liquid at ambient temperature | 4 |
| 9.1.4 | Samples that are semi-solid or solid at ambient temperature | 4 |
| 9.2 | Paints and varnishes | 4 |
| 10 | Procedure | 4 |
| 10.1 | General | 4 |
| 10.2 | Procedure A | 4 |
| 10.3 | Procedure B | 5 |
| 11 | Calculation | 5 |
| 11.1 | Conversion of barometric pressure reading | 5 |
| 11.2 | Correction of observed flash point to standard atmospheric pressure | 6 |
| 12 | Expression of results | 6 |
| 13 | Precision | 6 |
| 13.1 | General | 6 |
| 13.2 | Repeatability, r | 6 |
| 13.3 | Reproducibility, R | 7 |
| 14 | Test report | 7 |
| Annexes A Apparatus verification | | 8 |
| B | Pensky-Martens closed cup test apparatus | 11 |
| C | Thermometer specifications | 17 |
| D | Adaptor for low-range thermometer | 18 |
| Bibliography | | 21 |