

# ISO 15029-2:2018 (E)

## Petroleum and related products — Determination of spray ignition characteristics of fire-resistant fluids — Part 2: Spray test — Stabilised flame heat release method

---

### Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Principle
5	Reagents and materials
6	Apparatus
7	Sampling and sample preparation
8	Apparatus preparation
9	Procedure
9.1	Measurements at a propane flow rate of 0,13 Nm <sup>3</sup> /h
9.2	Measurements at a propane flow rate of 0,4 Nm <sup>3</sup> /h
9.3	Rejection of test data
9.4	Repeat testing
9.5	Number of tests
9.5.1	General
9.5.2	Calculation
9.5.3	Marginal values
9.5.4	Conclusion
10	Calculations
10.1	Ignitability factor
10.1.1	At propane flow rate of 0,13 Nm <sup>3</sup> /h
10.1.2	At propane flow rate of 0,4 Nm <sup>3</sup> /h
10.2	Flame length index
10.2.1	At propane flow rate of 0,13 Nm <sup>3</sup> /h
10.2.2	At propane flow rate of 0,4 Nm <sup>3</sup> /h
10.3	Smoke density
11	Expression of results
11.1	Individual results
11.2	Ranking system
12	Precision
13	Test report
Annex A	(normative) Verification of propane pressure and flow rate
A.1	Apparatus
A.1.1	Pressure gauge
A.1.2	Flowmeter
A.2	Procedure
A.2.1	Measurement

**A.2.2 Verification**

**Annex B (normative) Verification of propane flame characteristics**

- B.1 Apparatus**
  - B.1.1 General**
  - B.1.2 Temperature sensor**
  - B.1.3 Traverse system**
  - B.1.4 Insulation board**
- B.2 Flame temperature measurements**
  - B.2.1 Axial temperatures**
  - B.2.2 Radial temperatures**
- B.3 Verification**
  - B.3.1 Standard values**
  - B.3.2 Conformity values**

**Annex C (normative) Test apparatus calibration**

- C.1 Calibration fluids**
- C.2 Testing**
- C.3 Calibration**

**Annex D (informative) Fire-resistant classification scheme**

**Annex E (informative) Examples of pro-forma for test results**

- E.1 General**
- E.2 Example worksheet for low propane rate results**
- E.3 Example worksheet for high propane rate results**

Page count: 29