DIN EN 16715:2026-05 (E)

Liquid petroleum products - Determination of ignition delay and derived cetane number (DCN) of middle distillate fuels - Ignition delay and combustion delay determination using a constant volume combustion chamber with direct fuel injection

Contents

Page

European foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Principle 7

5 Reagents and materials 7

6 Apparatus 8

7 Sampling 9

8 Apparatus assembly and installation 11

9 Preparation of apparatus 11
9.1 System start-up and warm-up 11
9.2 Standard operating and test conditions 11

10 Calibration 12
10.1 General 12
10.2 Calibration, verification and quality control 12
10.3 Apparatus verification 13
10.4 Quality control (QC) 13

11 Test procedure 14

12 Calculation 14

13 Expression of results 14

14 Precision 15
14.1 General 15
14.2 Repeatability, r 15
14.3 Reproducibility, R 15

15 Test report 16

Annex A (normative) Combustion analyser description 17

Annex B (normative) Operational details in support to the standard test procedure 20

Bibliography 24