

DIN EN ISO 13032:2024-11 (E)

Petroleum and related products - Determination of low concentration of sulfur in automotive fuels - Energy-dispersive X-ray fluorescence spectrometric method (ISO 13032:2024)

Contents	Page
European foreword	3
Foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Principle	7
5 Reagents and materials	7
5.1 Diluent oil.....	7
5.2 Sulfur compounds.....	7
5.3 Reference materials.....	8
5.4 Quality control samples.....	8
6 Apparatus	8
7 Sampling and sample handling	9
8 Apparatus preparation	9
8.1 Analyser.....	9
8.2 Sample cups.....	9
9 Calibration	10
9.1 General.....	10
9.2 Preparation of primary standard solutions.....	10
9.3 Calibration standard solutions.....	11
9.4 Calibration procedure.....	12
10 Procedure	13
11 Calculation	13
12 Expression of results	13
13 Precision	14
13.1 General.....	14
13.2 Repeatability, <i>r</i>	14
13.3 Reproducibility, <i>R</i>	14
14 Test report	14
Annex A (informative) Matrix effects	15
Annex B (normative) Instructions for measuring low sulfur concentrations	17
Bibliography	19