ISO 21461:2012-06 (E)

Rubber - Determination of the aromaticity of oil in vulcanized rubber compounds

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Reagents and materials 1
4.1 Extraction 1
4.2 Sample preparation reagents 1

5 Apparatus 2

6 Procedure 3
6.1 Sample extraction 3
6.2 Extractpurification 3
6.3 NMR analysis 4

7 Calculation 6

8 Test report 6

Annex A (informative) 1H NMR spectra of extracts from compounds containing aromatic oil (Figures A.1 and A.3) and MES oil (Figures A.2 and A.4) 8

Annex B (informative) Preparation of clean samples of rubber compounds from tyres 10

Annex C (informative) Precision statement 18

Bibliography 19