

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 Terms and definitions	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 Extract purification	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