ISO 21023:2025-12 (E)

Textiles - Determination of surface chemical properties of carbon fibres using X-ray photoelectron spectroscopy

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Principle 1

5 Apparatus 2

6 Specimen preparation 2
6.1 General 2
6.2 Reagents and materials 2
6.3 Process 2
6.3.1 Desizing 2
6.3.2 Acidification 2
6.3.3 Drying 3
6.4 Other carbon fibre forms 3

7 Test procedure 3
7.1 Measurement instrument 3
7.2 Sample mounting 3
7.3 Measurement conditions 3
7.3.1 Vacuum 3
7.3.2 X-ray power 3
7.4 Measurement procedure 3

8 Analysis and calculation 3

9 Test report 4

Annex A (informative) XPS test results of carbon fibres 5

Annex B (informative) Report on the interlaboratory trial 7

Bibliography 9