

ISO 24953:2026-07 (E)

Textiles - Determination of iodine isotope adsorption efficiency of activated carbon fibre

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 Reagents and materials	5
7 Preparation of test specimens	6
8 Test procedure	6
8.1 Test condition	6
8.2 Canister preparation	7
8.2.1 General	7
8.2.2 Procedure for canister preparation	7
8.3 Procedure for leakage test	7
8.3.1 General	7
8.4 Stabilization period	8
8.5 Pre-equilibrium period	8
8.6 Equilibrium period	8
8.7 Adsorption period	8
8.8 I131 radiation injected during one test	9
8.9 Desorption period	9
8.10 Collection of activated carbon fibre and charcoal	9
8.11 Measurement	9
9 Calculation	9
9.1 Penetration rate	9
9.2 Adsorption efficiency of test bed(E) and back-up bed (Eb1)	10
9.3 I131 adsorption capacity of activated carbon fibre	10
9.4 Standard deviation of penetration	10
9.5 Counting conditions	11
9.6 Gamma count correction	11
10 Test report	11
Annex A (normative) Test system	12
Annex B (informative) Test procedure and test results	16
Bibliography	19