

DIN EN ISO 9271:2024-10 (E)

Decontamination of radioactively contaminated surfaces - Testing of decontamination agents for textiles (ISO 9271:2023)

Contents		Page
	European Foreword	3
	Foreword	4
	Introduction	5
1	Scope	6
2	Normative references	6
3	Terms, definitions and symbols	6
	3.1 Terms and definitions.....	7
	3.2 Symbols.....	8
4	Principle	8
5	Apparatus	9
	5.1 Beakers.....	9
	5.2 Radiation detector.....	9
	5.3 Pipettes.....	10
	5.4 Two polytetrafluoroethylene (PTFE) or quartz ampoules.....	10
	5.5 Thermostat.....	10
	5.6 Storage bottles.....	10
	5.7 Drying cabinet.....	10
	5.8 Mounting.....	10
	5.9 Cage-stirrer apparatus.....	11
6	Contamination and decontamination agents	11
	6.1 Contaminant solutions.....	11
	6.1.1 Composition of contaminant solutions.....	11
	6.1.2 Preparation of the contaminant solutions.....	11
	6.1.3 Storage of the contaminant solution.....	12
	6.2 Decontamination agents.....	12
7	Contaminated textile specimen	12
	7.1 Reference materials.....	12
	7.2 Number and dimensions of contaminated textile specimens.....	13
8	Procedure	13
	8.1 Determining the specific pulse rate of each contaminant solution.....	13
	8.2 Preparation of the textile specimens.....	13
	8.3 Contamination.....	14
	8.3.1 Preparation.....	14
	8.3.2 Procedure.....	14
	8.4 Decontamination.....	15
	8.4.1 Preparation.....	15
	8.4.2 Procedure.....	15
	8.5 Determining the residual pulse rate, I_r	16
9	Calculation of results and assessment of ease of decontamination	16
10	Test report	17
	Annex A (informative) Clamp specimen holder	18
	Annex B (normative) Cage-stirrer apparatus for decontamination	19
	Annex C (informative) Formulae for the preparation of ^{60}Co and ^{137}Cs or ^{134}Cs contaminant solutions	28
	Annex D (informative) Example of a test report	31
	Bibliography	33