

Contents

	Foreword	
	Introduction	
1	Scope	
2	Normative references	
3	Terms and definitions	
4	Requirements	
5	Test methods by radioactive means	
5.1	Immersion tests	
5.1.1	Immersion test (hot liquid)	
5.1.2	Immersion test (boiling liquid)	
5.1.3	Immersion test with a liquid scintillator	
5.1.4	Immersion test at room temperature	
5.1.5	Acceptance criteria	
5.2	Gaseous emanation tests	
5.2.1	Gaseous emanation test by absorption (for radium-226 sealed sources)	
5.2.2	Gaseous emanation test by immersion with a liquid scintillator (for radium-226 sealed sources)	
5.2.3	Gaseous emanation test (for krypton-85 sealed sources)	
5.2.4	Other gaseous emanation tests	
5.2.5	Acceptance criteria	
5.3	Wipe tests	
5.3.1	Wet wipe test	
5.3.2	Dry wipe test	
5.3.3	Acceptance criteria	
6	Test methods by volumetric means	
6.1	Helium mass spectrometer leakage tests	
6.1.1	Helium test [equivalent to leak test type B6 in ISO 20485]	
6.1.2	Helium pressurisation test [equivalent to leak test type B5 in ISO 20485]	
6.1.3	Acceptance criteria	
6.2	Bubble leakage tests	
6.2.1	Vacuum bubble test [equivalent to immersion technique using vacuum in EN 1593[6]	
6.2.2	Hot-liquid bubble test [equivalent to immersion technique using liquid at elevated temperature in EN 1593[6]	
6.2.3	Gas pressurisation bubble test [equivalent to immersion technique using pressurisation of the object in EN 1593[6]	
6.2.4	Liquid nitrogen bubble test	
6.2.5	Acceptance criteria	
6.3	Water pressurisation test	
Annex A	(informative) Guidance for the choice of the tests to be carried out according to purpose and sealed source type	
A.1	General	
A.2	Leakage test for the production of sealed sources	
A.3	Leakage tests for test sources used for classification testing to ISO 2919	
A.4	Periodic inspections	