



BSI Standards Publication

**Measurement of radioactivity
in the environment — Air
— Radon 220: Integrated
measurement methods for
the determination of the
average activity concentration
using passive solid-state
nuclear track detectors
(ISO 16641:2014)**

National foreword

This British Standard is the UK implementation of EN ISO 16641:2016. It is identical to ISO 16641:2014.

Attention is drawn to the fact that during the development of this International Standard, the UK committee voted against its approval.

This standard proposes a new passive detector system for measuring thoron (Rn-220) which consists of two passive diffusion chambers. It is the opinion of the UK committee that ISO 16641 does not provide clear guidance and lacks essential technical information about the specific parameters of the diffusion chambers and their operation. More information is needed about the design and technical requirements of the diffusion chambers and the values required for the minimum and maximum diffusion rates of radon/thoron detectors. The UK committee is also of the opinion that ISO 16641 should include additional instruction in section 6.3.1, *Installation of sampling devices*, to avoid placement of detectors in close proximity to the walls or directly on the floor, so that the risk of thoron contamination from the building materials is minimised.

The UK participation in its preparation was entrusted to Technical Committee NCE/2, Radiation protection and measurement.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2016.

Published by BSI Standards Limited 2016

ISBN 978 0 580 90933 7

ICS 17.240

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 May 2016.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------
