

Irish Standard Recommendation S.R. EN 17058:2018

Workplace exposure - Assessment of exposure by inhalation of nano-objects and their aggregates and agglomerates

© CEN 2018 No copying without NSAI permission except as permitted by copyright law.

#### S.R. EN 17058:2018

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R.~xxx: Standard~Recommendation-recommendation~based~on~the~consensus~of~an~expert~panel~and~subject~to~public~consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

Published:

NOTE: If blank see CEN/CENELEC cover page

This document is based on:

EN 17058:2018 2018-11-14

This document was published ICS number:

under the authority of the NSAI and comes into effect on: 13.040.30

2018-12-02

NSAI T +353 1 807 3800 Sales:

 1 Swift Square,
 F +353 1 807 3838
 T +353 1 857 6730

 Northwood, Santry
 E standards@nsai.ie
 F +353 1 857 6729

 Dublin 9
 W NSAI.ie
 W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

#### National Foreword

S.R. EN 17058:2018 is the adopted Irish version of the European Document EN 17058:2018, Workplace exposure - Assessment of exposure by inhalation of nano-objects and their aggregates and agglomerates

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

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This is a free page sample. Access the full version online.

This page is intentionally left blank

**EUROPEAN STANDARD** 

EN 17058

NORME EUROPÉENNE

**EUROPÄISCHE NORM** 

November 2018

ICS 13.040.30

### **English Version**

# Workplace exposure - Assessment of exposure by inhalation of nano-objects and their aggregates and agglomerates

Exposition sur les lieux de travail - Évaluation de l'exposition par inhalation aux nano-objets et à leurs agrégats et agglomérats

Exposition am Arbeitsplatz - Beurteilung der inhalativen Exposition gegenüber Nanoobjekten und deren Aggregaten und Agglomeraten

This European Standard was approved by CEN on 25 June 2018.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

## EN 17058:2018 (E)

Cont	<b>Contents</b> Page				
Europ	oean foreword	4			
Intro	luction	5			
1	Scope	<i>6</i>			
2	Normative references	<i>6</i>			
3	Terms and definitions	<i>6</i>			
4	Symbols and abbreviations				
5	Measurement strategy				
5.1	General	10			
5.1.1	Objectives				
5.1.2 5.2	Source domains				
5.2 5.3	Measuring devices and measurement methodsLevels of exposure assessment				
5.3.1	General				
5.3.2	Initial assessment - Determination of the potential for release and emission of NOAA				
5.3.3	into the workplace airBasic assessment - Indication of exposure to NOAA				
5.3.4	Comprehensive assessment – Comprehensive characterization of the airborne	17			
	particles in the breathing zone	18			
6	Embedding of levels of exposure assessment in a tiered-approach framework				
6.1	General	21			
6.2	Building blocks for a tiered-approach				
6.3	Evaluation criteria and decision rules				
6.3.1 6.3.2	GeneralInitial assessment (Tier 1)				
6.3.3	Basic assessment (Tier 2)				
6.3.4	Comprehensive assessment (Tier 3)				
Annex	x A (informative) Instruments				
<b>A.1</b>	General	27			
A.2	Real-time monitors	27			
A.2.1	General	27			
A.2.2	Aerosol photometer	27			
A.2.3	Optical Particle Counter (OPC)	28			
A.2.4	Condensation Particle Counter (CPC)	28			
A.2.5	Diffusion charger	28			
A.2.6	Differential Mobility Analysing System (DMAS)	29			
A.2.7	Electrical Low Pressure Impactor (ELPITM 2)	29			
A.2.8	Tapered Element Oscillating Microbalance (TEOM™²)	29			
A.3	Aerosol sampler	29			



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

**Product Page** 

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation