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Nederlandse norm

NEN-ISO 29464

(en)

Reinigingsapparatuur voor lucht en andere gassen - Woordenlijst (ISO 29464:2011, IDT)

Cleaning equipment for air and other gases - Terminology (ISO 29464:2011, IDT)

ICS 01.040.91; 91.140.30

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- ISO 29464:2011, IDT

OORBEELD
Preview

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**Cleaning equipment for air and other
gases — Terminology**

Séparateurs aérauliques — Terminologie



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Foreword

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ISO 29464 was prepared by Technical Committee ISO/TC 142, *Cleaning equipment for air and other gases*.

This first edition of ISO 29464 cancels and replaces ISO 3649:1980, which has been technically revised.

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Cleaning equipment for air and other gases — Terminology

1 Scope

This International Standard establishes a terminology for the air filtration industry and comprises terms and definitions together with, in some cases, symbols and units.

This International Standard is applicable to both particulate and gas phase air filters and cleaners used for the general ventilation of inhabited enclosed spaces. Air inlet filters for static or seaborne rotary machines are included.

It does not apply to cabin filters for road vehicles or air inlet filters for mobile internal combustion engines, for which separate arrangements exist. Dust separators for the purpose of air pollution control are also excluded.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 29463-1, *High-efficiency filters and filter media for removing particles in air — Part 1: Classification, performance testing and marking*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 Particulate filters

3.1.1

aerosol

system of solid or liquid particles suspended in gas

NOTE In general, one divides the atmospheric aerosol into three size categories: the ultrafine range $x \leq 0,1 \mu\text{m}$, the fine range $0,1 \mu\text{m} < x \leq 1 \mu\text{m}$ and the coarse range $x > 1 \mu\text{m}$, whereby x is the particle diameter.

3.1.2

monodisperse aerosol

aerosol, the width of whose distribution function, described by the geometric standard deviation σ_g , is less than $1,15 \mu\text{m}$

3.1.3

polydisperse aerosol

aerosol, the width of whose distribution function, described by the geometric standard deviation σ_g , exceeds $1,5 \mu\text{m}$

3.1.4

quasi-monodisperse aerosol

aerosol, the width of whose distribution function, described by the geometric standard deviation σ_g , lies between $1,15 \mu\text{m}$ and $1,5 \mu\text{m}$

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3.1.5**test aerosol**

aerosol used for determining filter performance and for calibrating particle measurement devices

3.1.6**agglomerate**

collection of solid particles adhering to each other

3.1.7**agglomeration**

action leading to the formation of agglomerates

3.1.8**agglutination**

action of joining, by impact, solid particles coated with a thin adhesive layer or of trapping solid particles by impact on a surface coated with adhesive

3.1.9**aggregate**

relatively stable assembly of dry particles, formed under the influence of physical forces

3.1.10**filter media area**

A_{fm}
area of media contained in the filter

3.1.11**effective filter media area**

area of the media contained in the filter (without adhesive spaces or ligament) and passed by air during operation

3.1.12**exposed filter area**

A_{exp}
area of filter medium in a filter effective for particle capture

3.1.13**nominal filter face area**

A_{nff}
frontal face area of the filter including the header frame which determines the nominal filter face velocity

3.1.14**arrestance**

A
measure of the ability of a filter to remove a standard test dust from the air passing through it, under given operating conditions

NOTE This measure is expressed as a weight percentage.

3.1.15**average arrestance**

A_m
ratio of the total amount of loading dust retained by the filter to the total amount of dust fed up to final test pressure differential

3.1.16**initial arrestance**

value of arrestance determined after the first loading cycle in a filter test

NOTE 1 For example, in EN 14799 procedure for the first 30 g of test dust.

NOTE 2 This measure is expressed as a weight percentage.

3.1.17

ash

solid residue of effectively complete combustion

3.1.18

fly ash

ash entrained by combustion gases

3.1.19

dust holding capacity

DHC

C_d

amount of loading dust retained by the filter up to final pressure differential

3.1.20

capture

extraction of particles, liquid particles or gases, close to their sources for purposes of collection or sampling

3.1.21

classification

allocation of filters into groups and classes according to relevant aspects of their filtration performance

3.1.22

cleaning (after clogging)

removal of the deposit of solid or liquid particles which has produced clogging

3.1.23

clogging

deposition, progressive or otherwise, of solid or liquid particles on or within a filter medium, causing the flow to be obstructed

3.1.24

coalescence

action by which liquid particles in suspension unite to form larger particles

3.1.25

concentration content

quantity of a solid, liquid or gaseous material expressed as a proportion of another material in which it is contained in the form of a mixture, a suspension or a solution

3.1.26

correlation ratio of sampling points

downstream particle concentration divided by the upstream particle concentration (measured without filter)

3.1.27

particle counter

device for detecting and counting numbers of discrete airborne particles present in a sample of air

3.1.28

condensation particle counter

CPC

type of **optical particle counter** (3.1.29) in which very fine airborne particles are enlarged by condensation to a size which may readily be counted by other particle counting methods

NOTE 1 It can provide data on particle numbers but not the original size distribution.

NOTE 2 The ISO committee dealing with CPC is TC 24/SC 4.

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