

norm

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Respiratory protective devices -
Compressed gases for breathing
apparatus

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Voorbeeld
Preview

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NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 12021

May 2012

ICS 13.340.30

Will supersede EN 12021:1998

English Version

Respiratory protective devices - Compressed gases for breathing apparatus

Appareils de protection respiratoire - Gaz comprimés pour appareil de protection respiratoire isolant

Atemschutzgeräte - Druckgase für Atemschutzgeräte

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If this draft becomes a European Standard, 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Designation	5
5 Units	6
6 Reference conditions	6
7 Requirements	6
7.1 Breathing air	6
7.2 Mixing of gases	7
7.2.1 General	7
7.2.2 Oxygen compatible air	7
7.2.3 Nitrogen depleted air	7
7.2.4 Breathing oxygen	8
7.2.5 Oxygen and nitrogen gas mixtures	8
7.2.6 Oxygen and helium gas mixtures	9
7.2.7 Oxygen, helium and nitrogen gas mixtures	9
7.2.8 Helium	10
7.3 Odour	10
8 Sampling and testing	10
Annex A (informative) Natural air	11
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC	12
Bibliography	13
Tables	
Table 1 — Composition of breathing air	6
Table 2 — Water content of breathing air for certain supply pressures	7
Table 3 — Composition of oxygen compatible air	7
Table 4 — Composition of nitrogen depleted air	7
Table 5 — Composition of breathing oxygen	8
Table 6 — Composition of oxygen and nitrogen gas mixtures	8
Table 7 — Composition of oxygen and helium gas mixtures	9
Table 8 — Composition of oxygen, helium and nitrogen gas mixtures	9
Table 9 — Composition of helium	10
Table A.1 — Typical composition of natural air (ISO 2533)	11
Table ZA.1 — Correspondence between this European Standard and Directive 89/686/EEC	12

Foreword

This document (prEN 12021:2012) has been prepared by Technical Committee CEN/TC 79 "Respiratory protective devices", the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 12021:1998.

The major technical changes with respect to EN 12021:1998 are the following:

- a) broader scope;
- b) requirements for other gases and mixings added;
- c) designation (Clause 4) changed;
- d) reduced maximum water content for lower pressures.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive.

For relationship with EU Directive, see informative Annex ZA, which is an integral part of this document.

Preview
prEN 12021:2012

1 Scope

This European Standard specifies requirements for the quality of compressed gas supplied for use with the following applications:

- a) respiratory protective devices – Self-contained open-circuit compressed gas breathing apparatus and self-contained open-circuit compressed gas underwater breathing apparatus;
- b) respiratory protective devices – Compressed gas line breathing apparatus and compressed gas line breathing apparatus for use under water;
- c) respiratory protective devices for escape – Self-contained open-circuit compressed gas breathing apparatus including full face mask or mouthpiece assembly or hoods;
- d) respiratory protective devices for escape – Self-contained re-breathing apparatus including full face mask or mouthpiece assembly or hoods;
- e) respiratory equipment – Self-contained re-breathing apparatus;
- f) breathing gas supplied for hyperbaric operations.

The standard also applies to synthetic air. Account is taken of the use of compressed gases at both normal atmospheric pressure and hyperbaric pressures. Maximum allowable concentrations of impurity for compressed gases are quoted as values at normal atmospheric pressure.

This European Standard does not apply to compressed gases used for medical purposes or for aerospace applications.

2 Normative references

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

EN 132:1998, *Respiratory protective devices — Definitions of terms and pictograms*

3 Terms and definitions

For the purposes of this document the terms and definitions given in EN 132:1998 and the following apply.

3.1 hydrocarbon

organic compound consisting mainly of hydrogen and carbon

3.2 oil

mixture of hydrocarbons composed of six or more carbon atoms (C6+)

3.3 trimix

gas comprising a specified mixture of oxygen, helium and nitrogen, capable of supporting human life under appropriate diving or hyperbaric conditions

Note 1 to entry: This includes manufactured gas mixtures made up from combinations of pure oxygen, pure helium and pure nitrogen, with or without compressed air.

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