



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 14594:2005

ICS 13.340.30

**RESPIRATORY PROTECTIVE DEVICES -
CONTINUOUS FLOW COMPRESSED AIR LINE
BREATHING APPARATUS - REQUIREMENTS,
TESTING, MARKING**

National Standards
Authority of Ireland
Glasnevin, Dublin 9
Ireland

Tel: +353 1 807 3800
Fax: +353 1 807 3838
<http://www.nsai.ie>

Sales
<http://www.standards.ie>

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland and comes into
effect on:
July 7, 2005*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 2005

Price Code N

Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD

EN 14594

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2005

ICS 13.340.30

Supersedes EN 12419:1999, EN 139:1994, EN 1835:1999, EN 270:1994, EN 271:1995

English version

Respiratory protective devices - Continuous flow compressed air line breathing apparatus - Requirements, testing, marking

Appareils de protection respiratoire - Appareils de protection respiratoire isolants à adduction d'air comprimé à débit continu - Exigences, essais, marquage

Atemschutzgeräte - Druckluft-Schlauchgeräte mit kontinuierlichem Luftstrom - Anforderungen, Prüfung, Kennzeichnung

This European Standard was approved by CEN on 15 March 2005.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

	Page
Foreword.....	4
Introduction.....	5
1 Scope.....	5
2 Normative references.....	5
3 Terms, definitions and pictograms.....	6
4 Description.....	7
5 Classification.....	7
6 Requirements.....	8
6.1 General.....	8
6.2 Ergonomics.....	8
6.3 Materials.....	8
6.4 Cleaning and disinfecting.....	9
6.5 Practical performance.....	9
6.6 Connections.....	9
6.7 Body harness or belt.....	10
6.8 Performance requirements after storage.....	10
6.9 Flammability.....	11
6.10 Mobile compressed air supply systems.....	11
6.11 Warning devices for mobile compressed air supply systems.....	12
6.12 Compressed air supply tube.....	12
6.13 Breathing hose.....	14
6.14 Air flow rates.....	14
6.15 Adjustable parts.....	14
6.16 Facepieces.....	14
6.17 Inward leakage.....	16
6.18 Breathing resistance.....	17
6.19 Carbon dioxide content of inhalation air.....	17
6.20 Leaktightness.....	17
6.21 Checking and warning facilities.....	18
6.22 Resistance to abrasion.....	18
7 Testing.....	18
7.1 General.....	18
7.2 Visual inspection.....	19
7.3 Practical performance test.....	19
7.4 Strength of breathing hose connections.....	21
7.5 Resistance to collapse of breathing hose.....	21
7.6 Strength of compressed air supply tube, body harness and couplings.....	22
7.7 Storage conditioning.....	22
7.8 Flammability.....	22
7.9 Pressure reducer relief valve.....	23
7.10 Resistance to kinking of compressed air supply tube.....	23
7.11 Resistance to collapse of compressed air supply tube.....	23
7.12 Heat resistance of compressed air supply tube.....	24
7.13 Carbon dioxide content of the inhalation air.....	24
7.14 Inward leakage.....	24
7.15 Warning facilities.....	26

7.16	Mechanical resistance of lens(es) or visor(s) (hood/helmet/suit)	27
7.17	Breathing resistance	27
7.18	Noise inside the hood/helmet/suit	27
7.19	Strength of attachment of exhalation valve (hood/helmet/suit)	28
7.20	Air supply flow rate	28
7.21	Protective clothing	28
7.22	Effective mass supported by the facepiece	29
8	Marking	29
9	Information supplied by the manufacturer	30
Annex A (informative)	Marking	42
Annex ZA (informative)	Relationship between this European Standard and the Essential Requirements of EU Directive 89/686/EEC (PPE)	43
Bibliography	46

EN 14594:2005 (E)

Foreword

This European Standard (EN 14594:2005) has been prepared by Technical Committee CEN/TC 79 "Respiratory protective devices", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2005, and conflicting national standards shall be withdrawn at the latest by October 2005.

This European Standard 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 89/686/EEC.

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

Together with EN 14593-1 and EN 14593-2, EN 14594 supersedes EN 139:1994, EN 270:1994, EN 271:1995, EN 1835:1999 and EN 12419:1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-