

IRISH STANDARD

I.S. EN 405:2002

ICS 13.340.30

National Standards Authority of Ireland Dublin 9 Ireland

RESPIRATORY PROTECTIVE DEVICES VALVED FILTERING HALF MASKS TO
PROTECT AGAINST GASES OR GASES
AND PARTICLES - REQUIREMENTS,
TESTING, MARKING

Tel. (01) 807 3800 Tel: (01) 807 3838

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on February 22, 2002

NO COPYING WITHOUT NSAI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

© NSAI 2002

Price Code M

Údarás um Chaighdeáin Náisiúnta na hÉireann

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

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 405

December 2001

ICS 13.340.30

Supersedes EN 405:1992

English version

Respiratory protective devices - Valved filtering half masks to protect against gases or gases and particles - Requirements, testing, marking

Appareils de protection respiratoire - Demi-masques filtrants à soupapes contre les gaz ou contre les gaz et les particules - Exigences, essais, marquage

Atemschutzgeräte - Filtrierende Halbmasken mit Ventilen zum Schutz gegen Gase oder Gase und Partikeln -Anforderungen, Prüfung, Kennzeichnung

This European Standard was approved by CEN on 8 November 2001.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

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

EN 405:2001 (E)

Contents

		page
Forewo	ord	4
Introdu	iction	5
1	Scope	6
2	Normative references	
_	Terms and definitions	
3		
4	Description	
5	Classification	<u>7</u>
5.1 5.2	General Types of gas filtering half masks	7,7
5.2.1	Valved gas filtering half masks	
5.2.2	Valved multi-type gas filtering half masks	7
5.2.3	Valved combined filtering half masks	7
5.3	Designs of combined valved filtering half masks	
5.4	Classes of valved gas filtering half masks	7
6	Designation	8
7	Requirements	8
, 7.1	General	
7.2	Nominal values and tolerances	8
7.3	Visual inspection	8
7.4	Packaging	9
7.5	Practical performance Leakage	
7.6 7.7	Filter penetration/capacity	 و
7.7.1	Particle filter penetration	9
7.7.2	Gas filtering capacity	
7.8	Finish of parts	10
7.9	Inhalation and exhalation valves	
7.10	Breathing resistance	
7.10.1 7.10.2	GeneralInhalation resistance	11 44
7.10.2 7.10.3	Exhalation resistance	11 12
7.10.0	Clogging	
	General	
	Devices with separable particle filters	
	Devices with integral or separable particle filters	
7.11.4	Exhalation resistance	
7.12 7.13	Compatibility with skinFlammability	
7.14	Carbon dioxide content of the inhalation air	
7.15	Head harness	
7.16	Field of vision	
7.17	Demountable parts	14
8	Testing	
8.1	General	
8.2	Visual inspection	
8.3	Conditioning	
8.3.1 8.3.2	General	
2	Doming and doming	

EN 405:2001 (E)

8.3.3	Temperature	
8.3.4	Mechanical strength	
8.4	Practical performance1	
8.4.1	General1	
8.4.2	Walking test	
8.4.3	Work simulation test	
8.5	Inward Leakage1	
8.5.1	General1	
8.5.2	Principle1	
8.5.3	Apparatus	
8.5.4	Conditioning and number of test samples	
8.5.5	Test subjects1	
8.5.6	Preparation of samples	
8.5.7	Test procedure	
8.5.8	Test using sulfur hexafluoride as test agent	
8.5.9	Test using sodium chloride as test agent	
8.6	Gas filtering capacity	
8.7	Flammability	
8.8	Carbon dioxide content of the inhalation air	
8.9	Breathing resistance	
8.10	Strength of attachment exhalation valve housing2	24
9	Marking	24
9.1	Packaging	
9.2	Valved gas filtering half mask with separable particle filters	24
9.2.1	Valved gas filtering half mask	
9.2.2	Separable particle filters	
9.3	Valved gas filtering half masks with integral particle filters	25
10	Information supplied by the manufacturer2	25
Annex	A (informative) Marking	10
Annex	ZA (informative) Clauses of this European Standard addressing essential requirements or other	
,	provisions of EU Directives	11
Bibliog	raphy4	12

EN 405:2001 (E)

Foreword

This European Standard 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 June 2002, and conflicting national standards shall be withdrawn at the latest by June 2002.

This European Standard supersedes EN 405:1992.

This draft 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 standard.

The annexes A and ZA are informative.

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



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