



भारतीय मानक ब्यूरो

(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार)

BUREAU OF INDIAN STANDARDS

(Ministry of Consumer Affairs, Food & Public Distribution, Govt. of India)

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Review Document

Basic Details

1.	Sectional Committee No. & Title:	CHD 8 - Occupational Safety and Health
2.	IS No :	IS 8347 : 2008
3.	Title :	Respiratory protective devices - Definitions, classification and nomenclature of components (First Revision)
4.	Date of Previous Review:	May, 2018

Review Analysis

5.1 Status of standard(s), if any from which assistance had been drawn in the formulation of this IS.

S.No.	Standard (No.)	Standard (Title)	Whether the standard has since been revised	Major changes	Action proposed
1	AS CZ 11-1968	'Respiratory protective devices	Not revised	N/A	N/A
2	BS 4275 : 1968	'Recommendation for the selection, use and maintenance of respiratory protective equipment'	Not revised	N/A	N/A
3	ANSI Z 88.2-1969	'Practices for respiratory protections	ANSI Z88.2-1992: Respiratory Protection	N/A	N/A

5.2 Status of standard referred in the IS.

S.No.	Referred standards (No.)	Referred standards (Title)	Since revised IS no. of the corresponding IS	Changes in the referred Standards since last review of IS	Changes in the referred standard which are affecting the standard under review	Action proposed
1	IS 9623 : 2007	Selection, use and maintenance of respiratory protective devices Code of practice	IS 9623 : 2008 Selection, use and maintenance of respiratory protective devices Code of practice (First Revision)	The concerned technical committee felt the need to revise this standard based on the experiences gained and the technological developments in the last two and a half decades in this area. During this revision, the standard has been made compatible with IS 8347:2007 Respiratory protective devices Definitions, classification and nomenclature of components (first revision) and also considering the present Indian Standards on RPD which are developed aligning with the relevant EN standard. Further, apart from modifications in most of the clauses, following new aspects have been incorporated in this revision: a) Hazard identification, evaluation and control, b) Biological effects of respiratory hazards, c) Respiratory protection programme, d) Periodic evaluation and audit of the programme, and c) Nominal protection factor.	IS 9623 is referred to for definitions of terms, symbols, and units.	Reference year needs to be updated.

5.3 Any other standards available related to the subject & scope of the standard being reviewed (International/regional/other national/association/consortia, etc or of new or revision of existing Indian Standard).

S.No.	Standard (No.)	Standard (Title)	Provisions that could be relevant while reviewing the IS	Action proposed
1	ISO 16972:2020 20	Respiratory protective devices Vocabulary and graphical symbols	Reference may be taken from ISO 16972 2020 Respiratory protective devices Vocabulary and graphical symbols to update IS 8347 2008	Need full need to be done

5.4 Technical comments on the standard received, if any.

S.No.	Source	Clause of IS	Comment	Action proposed
No entry made in this table				

5.5 Information available on relevant technical developments

S.No.	Source	Development	Relevant clause of the IS under review that is likely to be impacted (Clause & IS No.)	Action proposed
1	Committee Member	The committee in the last meeting had decided to take up the revision in order to make it compatible with ISO 16972:2020 Respiratory protective devices Vocabulary and graphical symbols. The main changes compared with the previous revision are as follows: the terminology used in the field of respiratory protective devices (RPD) have been updated; clause no.4, Terms related to human factors has been added	N/A	Need full has been done.

5.6 Issues arising out of changes in any related IS or due to formulation of new Indian Standard.

S.No.	Related IS (revised or new)	Related IS Title	Provision in the IS under review that would be impacted & the clause no. or addition of new clause/provision	Changes that may be necessary in the Standards under review	Action proposed
No entry made in this table					

5.7 Any consequential changes to be considered in other IS.

S.No.	Related IS to get impacted	Related IS Title	Requirements to be impacted
1	IS 15803-2008	Respiratory protective devices - Self contained closed circuit breathing apparatus chemical oxygen (KO ₂) type, self generating, self rescuers - Specification	Revised standard of IS 8347 shall be referred in this standard.
2	IS 17274 : Part 13-2019	Respiratory Protective Devices â Methods of Test and Test Equipment Part 13 RPD Using Regenerated Breathable Gas and Special Application Mining Escape RPD: Consolidated Test for Gas Concentration, Temperature, Humidity, Work of Breathing, Breathing Resistance, Elastance and Duration	Revised standard of IS 8347 shall be referred in this standard.
3	IS 10245 : Part 2-1994	Respiratory protective devices - Specification: Part 2 open circuit breathing apparatus (First Revision)	Revised standard of IS 8347 shall be referred in this standard.
4	IS 4972 : Part 7-2022	Resistance Spot Welding Part 7 Electrode Taper Fits For Spot Welding Equipment -- Dimensions (First Revision of IS 4972)	Revised standard of IS 8347 shall be referred in this standard.
5	IS 15323-2003	Gas filters and combined filters used in respiratory protective equipment - Specification	Revised standard of IS 8347 shall be referred in this standard.
6	IS 15322-2003	Particle filters used in respiratory protective equipment - Specification	Revised standard of IS 8347 shall be referred in this standard.
7	IS 17274 : Part 8-2019	Respiratory Protective Devices â Methods of Test and Test Equipment Part 8 Measurement of RPD Air Flow Rates of Assisted Filtering RPD	Revised standard of IS 8347 shall be referred in this standard.
8	IS 17274 : Part 9-2019	Respiratory Protective Devices â Methods of Test and Test Equipment Part 9 Determination of Carbon Dioxide Content of the Inhaled Gas	Revised standard of IS 8347 shall be referred in this standard.
9	IS 17274 : Part 10-2019	Respiratory Protective Devices â Methods of Test and Test Equipment Part 10 Resistance to Ignition, Flame, Radiant Heat and Heat	Revised standard of IS 8347 shall be referred in this standard.
10	IS 17274 : Part 11-2019	Respiratory Protective Devices â Methods of Test and Test Equipment Part 11 Determination of Field of Vision	Revised standard of IS 8347 shall be referred in this standard.
11	IS 17274 : Part 12-2019	Respiratory Protective Devices â Methods of Test and test Equipment Part 12 Determination of Volume-Averaged Work of Breathing and Peak Respiratory Pressures	Revised standard of IS 8347 shall be referred in this standard.
12	IS 14746-1999	Respiratory protective devices - Half masks and quarter masks - Specification	Revised standard of IS 8347 shall be referred in this standard.
13	IS 9473-2002	Respiratory protective devices - Filtering half masks to protect against particles - Specification (First Revision)	Revised standard of IS 8347 shall be referred in this standard.
14	IS 9563-1980	Specification for carbon monoxide filter self - Rescuers	Revised standard of IS 8347 shall be referred in this standard.
15	IS 10245 : Part 3-1999	Breathing apparatus: Part 3 fresh air hose and compressed air line breathing apparatus - Specification (First Revision)	Revised standard of IS 8347 shall be referred in this standard.
16	IS 10245 : Part 4-1982	Specification for breathing apparatus: Part 4 escape breathing apparatus (Short Duration Self - Contained Type)	Revised standard of IS 8347 shall be referred in this standard.
17	IS 14138 : Part 1-1994	Respiratory protective devices: Threads for facepiecbs - Specification: Part 1 standard thread connection	Revised standard of IS 8347 shall be referred in this standard.
18	IS 14138 : Part 2-1994	Respiratory protective devices: Threads for facepieces: Part 2 centre thread connection	Revised standard of IS 8347 shall be referred in this standard.
19	IS 14166-1994	Respiratory protective devices full - Face masks - Specification	Revised standard of IS 8347 shall be referred in this standard.
20	IS 14170-1994	Respiratory protective devices mouthpiece assemblies - Specification	Revised standard of IS 8347 shall be referred in this standard.

Other Details

6.	Any other observation:	No other observation
7.	Upload Supporting Document(s)	
	7.1 ARP Report	62_15510_230823113534_ARP_Report.docx
	7.2 Draft Document	62_15510_230823113547_Draft_Document.docx
8.	Recommendations - On the basis of the analysis of the info available as mentioned above consideration of sectional committee is solicited on the following aspects of the IS under review:	In view of above, it is recommended that IS 8347: 2008 may be revised incorporating the above mentioned changes and other changes as deemed fit by the committee.