

BUREAU OF INDIAN STANDARDS

Program of Work

CHD 6 : Industrial Gases

Scope: a) To formulate Indian Standards for terminology; methods of sampling and test; codes of practice and specifications for industrial gases including high purity speciality gases and gas mixtures other than LPG. b) To liaise with i) ISO/TC 158 Analysis of gases

Liaison: **ISO TC-158 (O): Analysis of gases**

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 1090 : 2002 <i>Reviewed In : 2018</i>	Compressed Hydrogen - Specification (Third Revision)	December, 2018	1	Indigenous
2	IS 13490 : 1992 <i>Reviewed In : 2021</i>	Code of Practice for Handling of Speciality Gases	February, 2021	1	Indigenous
3	IS 15578 : 2005 <i>Reviewed In : 2021</i>	Code of Practice for Handling and Usage of Gas Mixtures	February, 2021	-	Indigenous
4	IS 15583 : 2005 <i>Reviewed In : 2021</i>	Compressed Helium Gas - Specification	February, 2021	1	Indigenous
5	IS 16142 : 2019 ISO 16664 : 2017 <i>Reviewed In : 2024</i> <i>ISO 16664:2017</i>	Gas Analysis - Handling of Calibration Gases and Gas Mixtures - Guidelines (First Revision)	March, 2024	-	Identical under dual numbering
6	IS 16247 : 2019 ISO 6141 : 2015 <i>Reviewed In : 2024</i> <i>ISO 6141:2015</i>	Gas Analysis - Contents of - Certificates for Calibration Gas Mixtures (First Revision)	March, 2024	-	Identical under dual numbering
7	IS 16248 : 2014 ISO 6144 : 2003 <i>Reviewed In : 2020</i> <i>ISO 6144 : 2003</i>	Gas Analysis - Preparation of Calibration Gas Mixtures - Static Volumetric Method	June, 2020	-	Identical under dual numbering
8	IS 16249 (Part 1) : 2021 ISO 6145 (part 1):20 <i>ISO 6145 (part 1):20</i>	Gas Analysis Preparation of Calibration Gas Mixtures Using Dynamic Methods Part 1 General Aspects		-	Identical under dual numbering
9	IS 16249 (Part 2) : 2019 ISO 6145-2 : 2019 <i>Reviewed In : 2024</i> <i>ISO 6145-2:2014</i>	Gas Analysis - Preparation of Calibration Gas Mixtures Using Dynamic Methods: Part 2 Piston Pumps (First Revision)	March, 2024	-	Identical under dual numbering
10	IS 16249 (Part 4) : 2015 ISO 6145-4 : 2004 <i>Reviewed In : 2020</i> <i>ISO 6145-4 : 2004</i>	Gas Analysis - Preparation of Calibration Gas Mixtures Using Dynamic Volumetric Methods: Part 4 Continuous Syringe Injection Method	June, 2020	-	Identical under dual numbering
11	IS 16249 (Part 5) : 2015	Gas Analysis - Preparation of Calibration Gas Mixtures Using	June, 2020	-	Identical under dual numbering

	ISO 6145-5 : 2009 Reviewed In : 2020 ISO 6145-5 : 2009	Dynamic Volumetric Methods: Part 5 Capillary Calibration Devices			
12	IS 16249 (Part 6) : 2019 ISO 6145-6 : 2017 Reviewed In : 2024 ISO 6145-6:2017	Gas Analysis - Preparation of Calibration Gas Mixtures Using Dynamic Methods: Part 6 Critical Flow Orifices (First Revision)	March, 2024	-	Identical under dual numbering
13	IS 16249 (Part 7) : 2020 ISO 6145-7 : 2018 ISO 6145 (part 7):20	Gas Analysis - Preparation of Calibration Gas Mixtures Using Dynamic Methods Part 7 Thermal Mass-Flow Controllers (First Revision)	-	-	Identical under dual numbering
14	IS 16249 (Part 8) : 2015 ISO 6145-8 : 2005 Reviewed In : 2020 ISO 6145-8 : 2005	Gas Analysis - Preparation of Calibration Gas Mixtures Using Dynamic Volumetric Methods: Part 8 Diffusion Method	June, 2020	-	Identical under dual numbering
15	IS 16249 (Part 9) : 2015 ISO 6145-9 : 2009 Reviewed In : 2020 ISO 6145-9 : 2009	Gas Analysis - Preparation of Calibration Gas Mixtures Using Dynamic Volumetric Methods: Part 9 Saturation Method	June, 2020	-	Identical under dual numbering
16	IS 16249 (Part 10) : 2015 ISO 6145-10 : 2002 Reviewed In : 2020 ISO 6145-10 : 2002	Gas Analysis - Preparation of Calibration Gas Mixtures Using Dynamic Volumetric Methods: Part 10 Permeation Method	June, 2020	-	Identical under dual numbering
17	IS 16249 (Part 11) : 2015 ISO 6145-11 : 2005 Reviewed In : 2020 ISO 6145-11 : 2005	Gas Analysis - Preparation of Calibration Gas Mixtures Using Dynamic Volumetric Methods: Part 11 Electrochemical Generation	June, 2020	-	Identical under dual numbering
18	IS 16250 : 2015 ISO 15796 : 2005 Reviewed In : 2020 ISO 15796 : 2005	Gas Analysis Investigation and Treatment of Analytical Bias	June, 2020	-	Identical under dual numbering
19	IS 16252 : 2014 ISO 14912 : 2003 Reviewed In : 2020 ISO 14912 : 2003	Gas Analysis - Conversion of Gas Mixture Composition Data	June, 2020	-	Identical under dual numbering
20	IS 16253 : 2016 ISO 26142 : 2010 Reviewed In : 2021 ISO 26142 : 2010	Hydrogen Detection Apparatus - Stationary Applications	November, 2021	-	Identical under dual numbering
21	IS 16260 : 2019 ISO 6142 : 2015 Reviewed In : 2024 ISO 6142-1:2015	Gas Analysis Preparation of Calibration Gas Mixtures Gravimetric Method for Class 1 Mixtures (First Revision)	March, 2024	-	Identical under dual numbering
22	IS 16264 : 2014 ISO 6143 : 2001 Reviewed In : 2020 ISO 6143 : 2001	Gas Analysis - Comparison Methods for Determining and Checking the Composition of Calibration Gas Mixtures	June, 2020	-	Identical under dual numbering
23	IS 16509 : 2020 ISO 22734 : 2019 ISO 22734:2019	Hydrogen Generators Using Water Electrolysis - Industrial, Commercial and Residential Applications (First Revision)		-	Identical under dual numbering
24	IS 16512 (Part 1) : 2016	Hydrogen Generators Using Fuel Processing Technologies: Part 1	October, 2021	-	Identical under dual numbering

	ISO 16110-1 : 2007 Reviewed In : 2021 ISO 16110-1 : 2007	Safety			
25	IS 16749 : 2018 ISO/TR 15916 : 2015 Reviewed In : 2024 ISO/TR 15916:2015	Basic Considerations for the Safety of Hydrogen Systems	March, 2024	-	Identical under dual numbering
26	IS 1747 : 2023	Nitrogen Compressed Gas and Liquid-Specification Second Revision		-	Indigenous
27	IS 2432 : 1993 Reviewed In : 2021	Liquid Sulphur Dioxide - Specification (First Revision)	February, 2021	1	Indigenous
28	IS 307 : 1966 Reviewed In : 2022	Specification for Carbon Dioxide (Second Revision)	August, 2022	-	Indigenous
29	IS 308 : 1988 Reviewed In : 2021	Specification for Dissolved Acetylene (Gas) (Third Revision)	February, 2021	2	Indigenous
30	IS 309 : 2023	Oxygen Compressed Gas and Liquid-Specification (Fifth Revision)		-	Indigenous
31	IS 5610 : 1993 Reviewed In : 2022	Chloro - Fluoro Hydrocarbons of the Methane and Ethane Series - Specification (Second Revision)	August, 2022	-	Indigenous
32	IS 5760 : 1998 Reviewed In : 2021	Argon, Compressed and Liquid - Specification (Second Revision)	February, 2021	1	Indigenous
33	IS 7062 : 1973 Reviewed In : 2022	Glossary of Terms Used in Gas Industry	August, 2022	-	Indigenous
34	IS 7278 : 1993 Reviewed In : 2021	Methyl Chloride - Specification (First Revision)	February, 2021	1	Indigenous
35	IS/ISO 8573-1 : 2010 ISO 8573-1 : 2010 Reviewed In : 2022 ISO 8573-1 : 2010	Compressed Air: Part 1 Contaminants and Purity Classes (First Revision)	March, 2022	-	Identical under dual numbering
36	IS/ISO 8573-2 : 2018 ISO 8573-2 : 2007 ISO 8573-2 : 2018	Compressed Air - Contaminant Measurement Part 2 Oil Aerosol Content (First Revision)		-	Identical under dual numbering
37	IS/ISO 8573-3 : 1999 ISO 8573-3 : 1999 Reviewed In : 2020 ISO 8573-3 : 1999	Compressed Air: Part 3 Test Methods for Measurement of Humidity	June, 2020	-	Identical under single numbering
38	IS/ISO 8573-4 : 2019 ISO 8573-4:2019 Reviewed In : 2024 ISO 8573-4:2019	Compressed Air Contaminant Measurement Part 4 Particle Content	March, 2024	-	Identical under single numbering
39	IS/ISO 8573-5 : 2001 ISO 8573-5 : 2001 Reviewed In : 2020 ISO 8573-5: 2001	Compressed Air: Part 5 Test Methods for Oil Vapour And Organic Solvent Content	June, 2020	-	Identical under single numbering
40	IS/ISO 8573-6 : 2003 ISO 8573-6 : 2003 Reviewed In : 2020 ISO 8573-6: 2003	Compressed Air: Part 6 Test Methods for Gaseous Contaminant Content	June, 2020	-	Identical under dual numbering
41	IS/ISO 8573-7 :	Compressed Air: Part 7 Test	June, 2020	-	Identical under single

	2003 ISO 8573-7 : 2003 Reviewed In : 2020 ISO 8573-7:2003	Method for Viable Microbiological Contaminant Content			numbering
42	IS/ISO 8573-8 : 2004 ISO 8573-8 : 2004 Reviewed In : 2020 ISO 8573-8: 2004	Compressed Air: Part 8 Test Methods for Solid Particle Content by Mass Concentration	June, 2020	-	Identical under dual numbering
43	IS/ISO 8573-9 : 2004 ISO 8573-9 : 2004 Reviewed In : 2020 ISO 8573-9:2004	Compressed Air: Part 9 Test Methods for Liquid Water Content	June, 2020	-	Identical under single numbering

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Preliminary Draft Standards

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
1	CHD 6 (23657)	Methyl chloride Specification Second Revision
2	CHD 6 (23698)	GLOSSARY OF TERMS USED IN OIL GAS INDUSTRY First Revision
3	CHD 6 (25181)	REFRIGERANT GASES SPECIFICATION Third Revision
4	CHD 6 (25351)	GAS ANALYSIS - CONTENTS OF CERTIFICATES FOR CALIBRATION GAS MIXTURES First Revision Amendment - 1
5	CHD 6 (25353)	GAS ANALYSIS PREPARATION OF CALIBRATION GAS MIXTURES PART 1 GRAVIMETRIC METHOD FOR CLASS I MIXTURES Amendment No 1

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	CHD 6 (19997) Revision of: IS 2432:1993	LIQUID SULPHUR DIOXIDE SPECIFICATION Second Revision
2	CHD 6 (22400) Revision of: IS 308:1988	DISSOLVED ACETYLENE GAS SPECIFICATION Fourth Revision
3	CHD 6 (22865) Revision of: IS 307:1966	Carbon Dioxide Specification Third Revision

4	CHD 6 (22870) Revision of: IS 13490:1992	HANDLING OF SPECIALITY GASES CODE OF PRACTICE First Revision
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Total Published Standards:43 Total Standards Under development:9

Aspect Wise Report

Product : 12
 Code of Practices : 2
 Methods of Test : 10
 Terminology : 1
 Dimensions : 0
 System Standard : 0
 Safety Standard : 3
 Others : 15
 Service Specification : 0
 Process Specification : 0
 Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 14642 (Part 2) : 1999 Reviewed In : 2014 ISO 8573-2:1996	Compressed air for general use Part 2 test methods for aerosol oil content
2	IS 16061 (Part 2) : 2016 ISO 14687-2 : 2012 ISO 14687-2 : 2012	Hydrogen fuel - Product specification Part 2 proton exchange membrane PEM fuel cell applications for road vehicles
3	IS 16509 (Part 1) : 2016 ISO 22734-1 : 2008 ISO 22734-1 : 2008	Hydrogen generators using water electrolysis process Part 1 industrial and commercial applications
4	IS 3551 : 1965	Pure Nitrogen dry

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 1090 : 2002 Reviewed In : 2018	Compressed Hydrogen - Specification Third Revision
2	IS 15583 : 2005 Reviewed In : 2021	Compressed Helium Gas - Specification
3	IS 16253 : 2016 ISO 26142 : 2010 Reviewed In : 2021 ISO 26142 : 2010	Hydrogen Detection Apparatus - Stationary Applications
4	IS 16509 : 2020 ISO 22734 : 2019 ISO 22734:2019	Hydrogen Generators Using Water Electrolysis - Industrial Commercial and Residential Applications First Revision
5	IS 1747 : 2023	Nitrogen Compressed Gas and Liquid-Specification Second Revision
6	IS 2432 : 1993 Reviewed In : 2021	Liquid Sulphur Dioxide - Specification First Revision
7	IS 307 : 1966 Reviewed In : 2022	Specification for Carbon Dioxide Second Revision
8	IS 308 : 1988 Reviewed In : 2021	Specification for Dissolved Acetylene Gas Third Revision
9	IS 309 : 2023	Oxygen Compressed Gas and Liquid-Specification Fifth Revision
		Chloro - Fluoro Hydrocarbons of the Methane and Ethane Series - Specification Second Revision

10	IS 5610 : 1993 Reviewed In : 2022	
11	IS 5760 : 1998 Reviewed In : 2021	Argon Compressed and Liquid - Specification Second Revision
12	IS 7278 : 1993 Reviewed In : 2021	Methyl Chloride - Specification First Revision