

BUREAU OF INDIAN STANDARDS

Program of Work

CHD 9 : Ceramicware

Scope: To formulate Indian Standards for terminology, methods of sampling and test; and specification for: i) Ceramic Raw Materials; ii) Whiteware, all types of ceramic table ware (excluding porcelain insulators, sanitary ware, tiles, salt glazed pipes & fittings; and ceramic laboratory ware); iii) Technical Ceramics; and iv) Ceramic Coated Metal ware (excluding wares used in hospitals)

Liaison: **ISO TC-166 (P):** *Ceramic ware, glassware and glass ceramic ware in contact with food* **ISO TC-206 (O):** *Fine ceramics*

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10429 : 2011 <i>Reviewed In : 2017</i>	Powdered talc for ceramic industry - Specification (First Revision)	March, 2017	1	Indigenous
2	IS 11464 : 2021	QUARTZ FOR CERAMIC INDUSTRY SPECIFICATION		-	Indigenous
3	IS 11475 : 2002 <i>Reviewed In : 2018</i>	Stoneware crockeryware - Specification (Second Revision)	January, 2018	-	Indigenous
4	IS 11477 : 2011 <i>Reviewed In : 2021</i>	Pyrophyllite for ceramic industry - Specification (First Revision)	March, 2021	-	Indigenous
5	IS 12038 (Part 1) : 2007 ISO 4531-1 <i>Reviewed In : 2017</i> ISO 4531-1	Vitreous and porcelain enamels - Release of lead and cadmium from enamelled ware in contact with food: Part 1 method of test (First Revision)	March, 2017	-	Identical under dual numbering
6	IS 12038 (Part 2) : 2007 ISO 4531-2 <i>Reviewed In : 2017</i> ISO 4531-2	Vitreous and porcelain enamels - Release of lead and cadmium from enamelled ware in contact with food: Part 2 permissible limits (First Revision)	March, 2017	-	Identical under dual numbering
7	IS 12621 : 1988 <i>Reviewed In : 2022</i>	Bentonite for ceramic industry - Specification	December, 2022	2	Indigenous
8	IS 13273 : 1991 <i>Reviewed In : 2024</i>	Vitreous enamelled inner tanks for storage water heater - specification	March, 2024	1	Indigenous
9	IS 14179 : 1999 <i>Reviewed In : 2019</i>	Methods of test for ceramic tableware	November, 2019	-	Indigenous
10	IS 14705 : 1999 <i>Reviewed In : 2019</i>	Vitreous china crockeryware - Specification	November, 2019	-	Indigenous
11	IS 14721 : 1999 <i>Reviewed In : 2019</i>	Zinc oxide for ceramic industry - Specification	November, 2019	-	Indigenous
12	IS 15751 : 2007 <i>Reviewed In : 2017</i>	Calcite for ceramic industry - Specification	March, 2017	-	Indigenous
13	IS 15751 : 2024	Calcite for Ceramic Industry - Specification (First Revision)		-	Indigenous
14	IS 15752 : 2007	Sericite for ceramic industry -	March, 2017	1	Indigenous

	Reviewed In : 2017	Specification			
15	IS 17502 : 2020	Methylene Blue Index of Clay - Method of Test		-	Indigenous
16	IS 17933 : 2022 ISO 14704 : 2016 ISO 14704 : 2016	Fine ceramics advanced ceramics advanced technical ceramics $i_c^{1/2}$ Test method for flexural strength of monolithic ceramics at room temperature		-	Identical under dual numbering
17	IS 17934 : 2022 ISO 20501 : 2019 ISO 20501 : 2019	Fine ceramics advanced ceramics advanced technical ceramics Weibull statistics for strength data		-	Identical under dual numbering
18	IS 17935 : 2022 ISO 18754 : 2020 ISO 18754 : 2020	Fine ceramics (advanced ceramics advanced technical ceramics) $i_c^{1/2}$ Determination of density and apparent porosity		-	Identical under dual numbering
19	IS 17936 : 2022 ISO 20507 : 2014 ISO 20507 : 2014	Fine ceramics (advanced ceramics, advanced technical ceramics) - Vocabulary		-	Identical under dual numbering
20	IS 17975 : 2022 ISO 14627 : 2012 ISO 14627 : 2012	Fine ceramics advanced ceramics advanced technical ceramics $i_c^{1/2}$ Test method for fracture resistance of silicon nitride materials for rolling bearing balls at room temperature by indentation fracture IF method		-	Identical under dual numbering
21	IS 17981 : 2022 ISO 17561 : 2016 ISO 17561 : 2016	Fine ceramics advanced ceramics advanced technical ceramics $i_c^{1/2}$ Test method for elastic moduli of monolithic ceramics at room temperature by sonic resonance		-	Identical under dual numbering
22	IS 17985 : 2022 ISO 26602:2017 ISO 26602:2017	Fine ceramics (advanced ceramics advanced technical ceramics) $i_c^{1/2}$ Silicon nitride materials for rolling bearing balls and rollers		-	Identical under dual numbering
23	IS 17991 : 2022 ISO 14705 : 2016 ISO 14705 : 2016	Fine ceramics advanced ceramics advanced technical ceramics $i_c^{1/2}$ Test method for hardness of monolithic ceramics at room temperature		-	Identical under dual numbering
24	IS 18221 : 2023 ISO 17562 : 2016 ISO 17562 : 2016	Fine ceramics advanced ceramics advanced technical ceramics $i_c^{1/2}$ Test method for linear thermal expansion of monolithic ceramics by push-rod technique		-	Identical under dual numbering
25	IS 2333 : 1992 Reviewed In : 2024	Plaster of paris for ceramic industry - Specification (Second Revision)	March, 2024	1	Indigenous
26	IS 2717 : 1979 Reviewed In : 2024	Glossary of terms relating to vitreous enamelware and ceramic - Metal systems (First Revision)	March, 2024	1	Indigenous
27	IS 2781 : 2020	Glossary of Terms Relating to Ceramicware (Third Revision)	-	-	Indigenous
28	IS 2838 : 1964 Reviewed In : 2024	Specification for stoneware containers for general purposes	March, 2024	3	Indigenous
29	IS 2839 : 1964 Reviewed In : 2024	Specification for industrial stoneware	March, 2024	4	Indigenous
30	IS 2840 : 2021	CHINA CLAY FOR CERAMIC		-	Indigenous

		INDUSTRY SPECIFICATION			
31	IS 2857 : 2002 Reviewed In : 2018	Earthenware crockeryware - Specification (Third Revision)	January, 2018	-	Indigenous
32	IS 3149 : 1994 Reviewed In : 2019	Enamelware for home use - Specification (Second Revision)	November, 2019	1	Indigenous
33	IS 3505 : 2002 Reviewed In : 2018	Porcelain crockeryware - Specification (Third Revision)	January, 2018	-	Indigenous
34	IS 3972 (Part 1/Sec 1) : 2020 ISO 28764 ISO 28764	Methods Of Test For Vitreous Enamelware Part 1 Production Of Specimens For Testing		-	Identical under dual numbering
35	IS 3972 (Part 1/Sec 2) : 1982 Reviewed In : 2020 ISO 2724	Methods of test for vitreous enamelware: Part 1 preparation of specimen for testing: Sec 2 enamelled cast iron (First Revision)	November, 2020	2	Not Equivalent
36	IS 3972 (Part 2/Sec 2) : 2023 ISO 2746:2015, ISO 8289-1:2020, ISO 8289-2:2019	METHODS OF TEST FOR VITREOUS ENAMELWARE PART 2 TEST METHODS SECTION 2 LOW AND HIGH VOLTAGE TESTS FOR DETECTING AND LOCATING DEFECTS Second Revision		-	Not Equivalent
37	IS 3972 (Part 2/Sec 3) : 2020 ISO 28706-2 : 2017 ISO 28706-2:2017	Methods of Test for Vitreous Enamelware Part 2 Test Methods Section 3 Resistance to boiling acids, boiling liquids, alkaline liquids and their vapours (Second Revision)	-	-	Identical under dual numbering
38	IS 3972 (Part 2/Sec 4) : 2020 ISO 2747 : 1998 ISO 2747	Methods of Test for Vitreous Enamelware Part 2 Test Methods Section 4 Resistance to thermal shock (Second Revision)	-	-	Identical under dual numbering
39	IS 3972 (Part 2/Sec 5) : 2020 ISO 28706-4 : 2016 ISO 28706-4	Methods of Test for Vitreous Enamelware Part 2 Test Methods Section 5 Resistance to hot alkali (Second Revision)	-	-	Identical under dual numbering
40	IS 3972 (Part 2/Sec 6) : 1988 Reviewed In : 2019	Methods of test for vitreous enamelware: Part 2 test methods: Sec 6 reflectance and specular gloss (First Revision)	November, 2019	-	Indigenous
41	IS 3972 (Part 2/Sec 8) : 1990 Reviewed In : 2022 ISO 4350	Methods of test for vitreous enamelware: Part 2 test methow: Sec 8 resistance to heat (First Revision)	March, 2022	-	Not Equivalent
42	IS 3972 (Part 2/Sec 9) : 1991 Reviewed In : 2019 ISO 8290	Methods of test for vitreous enamelware: Part 2 test methods: Sec 9 resistance to dilute sulphuric acid (First Revision)	November, 2019	1	Not Equivalent
43	IS 3972 (Part 2/Sec 11) : 1995 Reviewed In : 2017 ISO 6370-1,2	Methods of test for vitreous enamelware: Part 2 test methods: Sec 11 resistance to abrasion (First Revision)	March, 2017	-	Not Equivalent
44	IS 3972 (Part 2/Sec 12) : 1999 Reviewed In : 2019	Methods of test for vitreous enamelware: Part 2 test methods: Sec 12 resistance to torsion (First Revision)	November, 2019	-	Indigenous
45	IS 3972 (Part 2/Sec 13) : 2007 Reviewed In : 2021	Methods of test for vitreous enamelware: Part 2 test methods: Sec 13 resistance to warpage (First	March, 2021	-	Indigenous

		Revision)			
46	IS 3972 (Part 2/Sec 14) : 2007 Reviewed In : 2021	Methods of test for vitreous enamelware: Part 2 test methods: Sec 14 resistance to adherence (First Revision)	March, 2021	-	Indigenous
47	IS 4589 : 2022	Plastic Clay and Washed Plastic Clay for Ceramic Industry $\frac{1}{2}$ Specification (Fourth Revision)		-	Indigenous
48	IS 6988 : 2002 Reviewed In : 2018	Fine (Bone) china crockeryware - Specification (Second Revision)	January, 2018	-	Indigenous
49	IS 7087 : 1979 Reviewed In : 2023	Specification for ceramic tower packings (First Revision)	March, 2023	2	Indigenous
50	IS 7775 : 1975 Reviewed In : 2019	Specification for ceramic grinding media and lining	November, 2019	1	Indigenous
51	IS 8017 : 1988 Reviewed In : 2019 ISO 8017:2007	Specification for vitreous enamelled reflectors for use with illuminating device	November, 2019	1	Identical under dual numbering
52	IS 8687 (Part 1) : 2023	Vitreous Enamels and Frits $\frac{1}{2}$ Method of Test Part 1 Sieve Analysis (First Revision)		-	Indigenous
53	IS 8687 (Part 2) : 2020 ISO 4534 : 2010 ISO 4534	Methods of Test for Vitreous Enamels and Frits Part 2 Fusion Flow Test (First Revision)	-	-	Identical under dual numbering
54	IS 8709 : 2023	Colour Retention of Vitreous Enamel Coatings $\frac{1}{2}$ Method of Test (First revision)		-	Indigenous
55	IS 9749 : 2020	Potash Feldspar and Soda Feldspar for Glass and Ceramic Industry — Specification (Second Revision)	-	-	Indigenous
56	IS 9806 : 2001 Reviewed In : 2017 ISO 6486 -1,2. ISO 7086 - 1,2	Methods of test for and permissible limits of toxic materials released from ceramicware, vitreous enamelware, glassware and glass - Ceramicware in contact with food (First Revision)	March, 2017	1	Not Equivalent

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
1	CHD 9 (24931)	Clay Utensils Specification
2	CHD 9 (24977) Revision of: IS 2838:1964	STONEWARE CONTAINERS FOR GENERAL PURPOSES SPECIFICATION First Revision
3	CHD 9 (24979) Revision of: IS 2839:1964	INDUSTRIAL STONEWARE SPECIFICATION First Revision
4	CHD 9 (24986) Revision	VITREOUS ENAMELWARE AND CERAMIC-METAL SYSTEMS GLOSSARY Second

of: IS 2717:1979

Revision

Draft Standards Completed WC Stage

Sl. No.	Doc No.	Title
1	CHD 9 (22746) Revision of: IS 2717:1979	VITREOUS AND PORCELAIN ENAMELLED MANUFACTURED ARTICLES DETERMINATION OF RESISTANCE TO HEAT
2	CHD 9 (23381) Revision of: IS 2717:1979	EARTHENWARE CROCKERYWARE SPECIFICATION Fourth Revision
3	CHD 9 (23550) Revision of: IS 2717:1979	STONEWARE CROCKERYWARE-SPECIFICATION Third Revision
4	CHD 9 (23551) Revision of: IS 2717:1979	FINE BONE CHINA CROCKERYWARE SPECIFICATION
5	CHD 9 (23552) Revision of: IS 2717:1979	PORCELAIN CROCKERYWARE SPECIFICATION
6	CHD 9 (24073) Revision of: IS 2717:1979	PLASTER OF PARIS FOR CERAMIC AND GLASS INDUSTRY SPECIFICATION Third Revision
7	CHD 9 (24968) Revision of: IS 2717:1979	VITREOUS ENAMELLED INNER TANKS FOR STORAGE WATER HEATER SPECIFICATION First Revision
8	CHD 9 (24974) Revision of: IS 2717:1979	METHODS OF TEST FOR VITREOUS ENAMELWARE PART 2 TEST METHODS SECTION 12 RESISTANCE TO TORSION Second Revision

Finalized Draft Indian Standard

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

Finalized Draft Indian Standards under Print

Sl. No.	Doc No.	Title
1	CHD 9 (20396) Revision of: IS 3972:1995	Vitreous Enamelware Part 2 Test Methods Section 11 Resistance to Abrasion Second Revision
2	CHD 9 (21261) Revision of: IS 12038:2007	Vitreous and porcelain enamels - Release from enamelled articles in contact with food - Methods of test and limits second revision

Total Published Standards:55 Total Standards Under development:14**Aspect Wise Report**

Product : 23
Code of Practices : 0
Methods of Test : 26
Terminology : 3
Dimensions : 1
System Standard : 0
Safety Standard : 1
Others : 1
Service Specification : 0
Process Specification : 0
Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

Sl. No.	IS No. & Year	Title
1	IS 10432 (Part 1/Sec 2) : 1982	Methods of test for vitreous enamelware Part 1 Preparation of specimen for testing Sec 2 Enamelled cast iron
2	IS 12038 : 1987	Permissible Limits and Test Methods for Toxic Materials Released from Enamelware in Contact

	Reviewed In : 2012	with Food
3	IS 3972 : 1968	Methods Of Test For Vitreous Enamelware
4	IS 3972 (Part 2/Sec 1) : 2020 ISO 28706-1 : 2008 ISO 28706-1	Methods of Test for Vitreous Enamelware Part 2 Test Methods Section 1 Resistance to corrosion by dilute acids at room temperature Second Revision
5	IS 3972 (Part 2/Sec 7) : 1990 Reviewed In : 2017 ISO 2743	Methods of test for vitreous enamelware Sec 7 resistance to boiling hydrochloric acid Part 2 test methods First Revision

Annexure-II :List of Indian Product Standards

Sl. No.	IS No. & Year	Title
1	IS 10429 : 2011 Reviewed In : 2017	Powdered talc for ceramic industry - Specification First Revision
2	IS 11464 : 2021 ISO 14533-3:2017	QUARTZ FOR CERAMIC INDUSTRY SPECIFICATION
3	IS 11475 : 2002 Reviewed In : 2018	Stoneware crockeryware - Specification Second Revision
4	IS 11477 : 2011 Reviewed In : 2021	Pyrophyllite for ceramic industry - Specification First Revision
5	IS 12621 : 1988 Reviewed In : 2022	Bentonite for ceramic industry - Specification
6	IS 13273 : 1991 Reviewed In : 2024	Vitreous enamelled inner tanks for storage water heater - specification
7	IS 14705 : 1999 Reviewed In : 2019	Vitreoljs china crockeryware - Specification
8	IS 14721 : 1999 Reviewed In : 2019	Zinc oxide for ceramic industry - Specification
9	IS 15751 : 2024	Calcite for Ceramic Industry Specification First Revision
10	IS 15752 : 2007 Reviewed In : 2017	Sericite for ceramic industry - Specification
11	IS 17985 : 2022 ISO 26602:2017	Fine ceramics advanced ceramics advanced technical ceramics Silicon nitride materials for rolling bearing balls and rollers
12	IS 2333 : 1992 Reviewed In : 2024	Plaster of paris for ceramic industry - Specification Second Revision
13	IS 2838 : 1964 Reviewed In : 2024	Specification for stoneware containers for general purposes
14	IS 2839 : 1964 Reviewed In : 2024	Specification for industrial stoneware
15	IS 2840 : 2021 ISO 22915 Part 12 :2015	CHINA CLAY FOR CERAMIC INDUSTRY SPECIFICATION
16	IS 2857 : 2002 Reviewed In : 2018	Earthenware crockeryware - Specification Third Revision
17	IS 3149 : 1994 Reviewed In : 2019	Enamelware for home use - Specification Second Revision
18	IS 3505 : 2002 Reviewed In : 2018	Porcelain crockeryware - Specification Third Revision
19	IS 4589 : 2022 ISO7229:2022	Plastic Clay and Washed Plastic Clay for Ceramic Industry Specification Fourth Revision
20	IS 6988 : 2002 Reviewed In : 2018	Fine Bone china crockeryware - Specification Second Revision
21	IS 7087 : 1979 Reviewed In : 2023	Specification for ceramic tower packings First Revision
22	IS 7775 : 1975	Specification for ceramic grinding media and lining

23	Reviewed In : 2019 IS 9749 : 2020	Potash Feldspar and Soda Feldspar for Glass and Ceramic Industry Specification Second Revision
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