

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 (P):** Fine ceramics

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10429:2011 <i>Reviewed In : 2024</i>	Powdered talc for ceramic industry - Specification (First Revision)	January, 2024	1	Indigenous
2	IS 11464:2021	Quartz for Ceramic Industry - Specification (Second Revision)		-	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 12038:2024 ISO 4531:2022 <i>ISO 4531:2022</i>	Vitreous and Porcelain Enamels - Release From Enamelled Articles in Contact with Food - Methods of Test and Limits (Second Revision)		-	Identical under dual numbering
6	IS 12621:1988 <i>Reviewed In : 2022</i>	Bentonite for ceramic industry - Specification	December, 2022	2	Indigenous
7	IS 13273:2024	Vitreous Enamelled Inner Tanks for Storage Water Heater - Specification (First Revision)		-	Indigenous
8	IS 14179:1999 <i>Reviewed In : 2025</i>	Methods of test for ceramic tableware	March, 2025	-	Indigenous
9	IS 14705:1999 <i>Reviewed In : 2025</i>	Vitreous china crockeryware - Specification	March, 2025	-	Indigenous
10	IS 14721:1999	Zinc oxide for ceramic industry - Specification	March, 2025	-	Indigenous
11	IS 15751:2024	Calcite for Ceramic Industry - Specification (First Revision)		-	Indigenous
12	IS 15752:2007 <i>Reviewed In : 2017</i>	Sericite for ceramic industry - Specification	March, 2017	1	Indigenous
13	IS 17502:2020 <i>Reviewed In : 2025</i>	Methylene Blue Index of Clay - Method of Test	March, 2025	-	Indigenous
14	IS 17933:2022 ISO 14704 : 2016 <i>ISO 14704 : 2016</i>	Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for flexural strength		-	Identical under dual numbering

		of monolithic ceramics at room temperature			
15	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
16	IS 17935:2022 ISO 18754 : 2020 ISO 18754 : 2020	Fine ceramics (advanced ceramics, advanced technical ceramics) - Determination of density and apparent porosity		-	Identical under dual numbering
17	IS 17936:2022 ISO 20507 : 2014 ISO 20507 : 2014	Fine ceramics (advanced ceramics, advanced technical ceramics) - Vocabulary		-	Identical under dual numbering
18	IS 17975:2022 ISO 14627 : 2012 ISO 14627 : 2012	Fine ceramics (advanced ceramics, advanced technical ceramics) - 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
19	IS 17981:2022 ISO 17561 : 2016 ISO 17561 : 2016	Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for elastic moduli of monolithic ceramics at room temperature by sonic resonance		-	Identical under dual numbering
20	IS 17985:2022 ISO 26602:2017 ISO 26602:2017	Fine ceramics (advanced ceramics, advanced technical ceramics) - Silicon nitride materials for rolling bearing balls and rollers		-	Identical under dual numbering
21	IS 17991:2022 ISO 14705 : 2016 ISO 14705 : 2016	Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for hardness of monolithic ceramics at room temperature		-	Identical under dual numbering
22	IS 18221:2023 ISO 17562 : 2016 ISO 17562 : 2016	Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for linear thermal expansion of monolithic ceramics by push-rod technique		-	Identical under dual numbering
23	IS 2333:2025	Plaster of Paris for Ceramic and Glass Industry - Specification (Third Revision)		-	Indigenous
24	IS 2717:2025	Vitreous Enamelware and Ceramic-Metal Systems - Glossary (Second Revision)		-	Indigenous
25	IS 2781:2020 Reviewed In : 2025	Glossary of Terms Relating to Ceramicware (Third Revision)	March, 2025	-	Indigenous
26	IS 2838:2025	Stoneware Containers for General Purposes - Specification (First Revision)		-	Indigenous
27	IS 2839:2025	Industrial Stoneware - Specification (First Revision)		-	Indigenous
28	IS 2840:2021	China Clay for Ceramic Industry - Specification		-	Indigenous
29	IS 2857:2002 Reviewed In : 2018	Earthenware crockeryware - Specification (Third Revision)	January, 2018	-	Indigenous
30	IS 3149:1994 Reviewed In : 2025 Decision taken to	Enamelware for home use - Specification (Second Revision)	March, 2025	1	Indigenous

	Reaffirm and Archive				
31	IS 3505:2002 Reviewed In : 2018	Porcelain crockeryware - Specification (Third Revision)	January, 2018	-	Indigenous
32	IS 3972 (Part 2/Sec 13):2007	Methods of test for vitreous enamelware: Part 2 test methods: Sec 13 resistance to warpage (First Revision)	March, 2021	-	Indigenous
33	IS 3972 (Part 2/Sec 14):2007	Methods of test for vitreous enamelware: Part 2 test methods: Sec 14 resistance to adherence (First Revision)	March, 2021	-	Indigenous
34	IS 3972 (Part 1):2020 ISO 28764 Reviewed In : 2025 ISO 28764	Methods of Test for Vitreous Enamelware Part 1: Production of Specimens for Testing	March, 2025	-	Identical under dual numbering
35	IS 3972 (Part 2/Sec 2):2023 ISO 2746:2015, ISO 8289-1:2020, ISO 8289-2:2019	Vitreous Enamelware - Method of Test Part 2: Test Methods Section 2: Low and High Voltage Tests for Detecting and Locating Defects (Second Revision)		-	Not Equivalent
36	IS 3972 (Part 2/Sec 3):2020 ISO 28706-2 : 2017 Reviewed In : 2025 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)	March, 2025	-	Identical under dual numbering
37	IS 3972 (Part 2/Sec 4):2020 ISO 2747 : 1998 Reviewed In : 2025 ISO 2747	Methods of Test for Vitreous Enamelware Part 2 Test Methods Section 4 Resistance to thermal shock (Second Revision)	March, 2025	-	Identical under dual numbering
38	IS 3972 (Part 2/Sec 5):2020 ISO 28706-4 : 2016 Reviewed In : 2025 ISO 28706-4	Methods of Test for Vitreous Enamelware Part 2 Test Methods Section 5 Resistance to hot alkali (Second Revision)	March, 2025	-	Identical under dual numbering
39	IS 3972 (Part 2/Sec 6):1988 Reviewed In : 2025	Methods of test for vitreous enamelware: Part 2 test methods: Sec 6 reflectance and specular gloss (First Revision)	March, 2025	-	Indigenous
40	IS 3972 (Part 2/Sec 8):2024 ISO 4530 : 2022 ISO 4530 : 2022	Vitreous Enamelware Part 2 Test Methods Section 8 Resistance to Heat (Second Revision)		-	Identical under dual numbering
41	IS 3972 (Part 2/Sec 9):1991 Reviewed In : 2025 ISO 8290	Methods of test for vitreous enamelware: Part 2 test methods: Sec 9 resistance to dilute sulphuric acid (First Revision)	March, 2025	1	Not Equivalent
42	IS 3972 (Part 2/Sec 11):2024 ISO/DIS 6370-1,2	Vitreous Enamelware Part 2 Test Methods Section 11 Resistance to Abrasion (Second Revision)		-	Not Equivalent
43	IS 3972 (Part 2/Sec 12):2024	Vitreous Enamelware Part 2 Test Methods Section 12 Resistance to Torsion (Second Revision)		-	Indigenous
44	IS 4589:2022	Plastic Clay and Washed Plastic Clay for Ceramic Industry - Specification (Fourth Revision)		-	Indigenous

45	IS 6988:2002 Reviewed In : 2018	Fine (Bone) china crockeryware - Specification (Second Revision)	January, 2018	-	Indigenous
46	IS 7087:1979 Reviewed In : 2023	Specification for ceramic tower packings (First Revision)	March, 2023	2	Indigenous
47	IS 7775:1975 Reviewed In : 2025	Specification for ceramic grinding media and lining	March, 2025	1	Indigenous
48	IS 8017:1988 Reviewed In : 2025 Decision taken to Reaffirm and Archive	Specification for vitreous enamelled reflectors for use with illuminating device	March, 2025	1	Indigenous
49	IS 8687 (Part 1):2023	Vitreous Enamels and Frits - Method of Test Part 1 Sieve Analysis (First Revision)		-	Indigenous
50	IS 8687 (Part 2):2020 ISO 4534 : 2010 Reviewed In : 2025 ISO 4534	Methods of Test for Vitreous Enamels and Frits Part 2 Fusion Flow Test (First Revision)	March, 2025	-	Identical under dual numbering
51	IS 8709:2023	Colour Retention of Vitreous Enamel Coatings - Method of Test (First revision)		-	Indigenous
52	IS 9749:2020 Reviewed In : 2025	Potash Feldspar and Soda Feldspar for Glass and Ceramic Industry — Specification (Second Revision)	March, 2025	-	Indigenous
53	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
No Records Found		

Preliminary Draft Standards

SI. No.	Doc No.	Title
No Records Found		

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
1	CHD 9 (24931)	Clay Utensils Specification

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	CHD 9 (28163) Revision of: IS 17936:2022	Fine Ceramics Advanced Ceramics Advanced Technical Ceramics Vocabulary First Revision
2	CHD 9 (33059)	Bentonite for ceramic industry - Specification
3	CHD 9 (33325)	Methods of test for ceramic tableware First Revision
4	CHD 9 (33348)	Pyrophyllite for ceramic industry - Specification Second Revision
5	CHD 9 (33350)	vitreous enamelware Part 2 test methods Sec 6 reflectance and specular gloss Second Revision
6	CHD 9 (33352)	Zinc oxide for ceramic industry - Specification First Revision
7	CHD 9 (33353)	Vitreous enamelware Part 2 test methods Sec 9 resistance to dilute sulphuric acid Second Revision
8	CHD 9 (33402)	Ceramics Crockeryware Specification

Total Published Standards:53 Total Standards Under development:9

Aspect Wise Report

Product : 23
 Code of Practices : 0
 Methods of Test : 25
 Terminology : 3
 Dimensions : 1
 System Standard : 0
 Safety Standard : 0
 Others : 1
 Service Specification : 0
 Process Specification : 0
 Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. 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 Reviewed In : 2012	Permissible Limits and Test Methods for Toxic Materials Released from Enamelware in Contact with Food
3	IS 12038 (Part 2):2007 ISO 4531-2 Reviewed In : 2017 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
4	IS 3972:1968	Methods Of Test For Vitreous Enamelware
5	IS 3972 (Part 1/Sec 2):1982 Reviewed In : 2020 ISO 2724	Methods of test for vitrous enamelware Part 1 preparation of specimen for testing Sec 2 enamelled cast iron First Revision
6	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
7	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

SI. No.	IS No. & Year	Title

1	IS 10429:2011 Reviewed In : 2024	Powdered talc for ceramic industry - Specification First Revision
2	IS 11464:2021 ISO 14533-3:2017	Quartz for Ceramic Industry - Specification Second Revision
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 13273:2024	Vitreous Enamelled Inner Tanks for Storage Water Heater - Specification First Revision
7	IS 14705:1999 Reviewed In : 2025	Vitreous china crockeryware - Specification
8	IS 14721:1999	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 ISO 14644-1	Fine ceramics advanced ceramics advanced technical ceramics - Silicon nitride materials for rolling bearing balls and rollers
12	IS 2333:2025	Plaster of Paris for Ceramic and Glass Industry - Specification Third Revision
13	IS 2838:2025	Stoneware Containers for General Purposes - Specification First Revision
14	IS 2839:2025	Industrial Stoneware - Specification First Revision
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 : 2025 Decision taken to Reaffirm and Archive	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 Reviewed In : 2025	Specification for ceramic grinding media and lining
23	IS 9749:2020 Reviewed In : 2025	Potash Feldspar and Soda Feldspar for Glass and Ceramic Industry Specification Second Revision