

## BUREAU OF INDIAN STANDARDS

### Program of Work

#### CHD 21 : Raw materials for paints, varnishes and related product

Scope: a) To formulate Indian standards for terminology, method of sampling and tests, code of practice and specification for raw materials for paints, varnishes and related products including application of nanotechnology in paint raw materials. b) To coordinate with work of ISO/TC 35 & ISO/TC 256

Liaison: **ISO TC-256 (P): Pigments, dyestuffs and extenders**

### Published Standards

| S.No | IS No.  | TITLE   | Reaffirm M-Y | No. of Amds | Eqv.                           |
|------|---|---|--------------|-------------|--------------------------------|
| 1    | IS 10897 : 1984<br><i>Reviewed In : 2024</i><br>Decision taken to Reaffirm and Archive    | Specification for zinc phosphate pigment for paints   | March, 2024  | -           | Indigenous                     |
| 2    | IS 11811 : 2021   | Specification for alkyd resin (First Revision)  |              | -           | Indigenous                     |
| 3    | IS 13467 : 1992<br><i>Reviewed In : 2022</i>  | Chlorinated rubber for paints - Specification   | May, 2022    | -           | Indigenous                     |
| 4    | IS 13467 : 2024   | CHLORINATED RUBBER FOR PAINTS $i_{1/2}$ SPECIFICATION (First Revision)                          |              | -           | Indigenous                     |
| 5    | IS 13966 : 1994<br><i>Reviewed In : 2019</i>  | Sodium carboxymethyl cellulose for use in oil industry - Specification                          | March, 2019  | -           | Indigenous                     |
| 6    | IS 14355 : 2022   | Zinc dust pigment for paints - Specification (First Revision)                                   |              | -           | Indigenous                     |
| 7    | IS 14499 : 2021   | Strontium chromate for paints - Specification (First Revision)                                  |              | -           | Indigenous                     |
| 8    | IS 14925 : 2001<br><i>Reviewed In : 2022</i><br>Decision taken to Reaffirm and Archive    | Epoxy resin for paints - Specification  | May, 2022    | -           | Indigenous                     |
| 9    | IS 15365 : 2019<br>87.060.20  | Amino resins for paints (First Revision)  |              | -           | Indigenous                     |
| 10   | IS 15366 : 2003<br><i>Reviewed In : 2019</i>  | Dolomite for paint industry - Specification   | March, 2019  | -           | Indigenous                     |
| 11   | IS 17294 : 2019<br>ISO 7579 : 2009<br><i>Reviewed In : 2024</i><br><i>ISO 7579 : 2009</i> | Dyestuffs - Determination of solubility in organic solvents gravimetric and photometric methods | March, 2024  | -           | Identical under dual numbering |
| 12   | IS 17384 : 2020<br>18451-1: 2019  | Pigments, dyestuffs and extenders - Terminology - general terms                                 |              | -           | Identical under dual numbering |

|    |  |   |             |   |                                |
|----|--|---|-------------|---|--------------------------------|
|    | ISO 18451-1: 2019  |   |             |   |                                |
| 13 | IS 17680 (Part 1) : 2021<br>ISO 18314-1: 2015<br>ISO 18314-1: 2015                 | Analytical colorimetry : Part 1 practical colour measurement  |             | - | Identical under dual numbering |
| 14 | IS 17727 : 2021  | Water-soluble sodium carboxymethyl cellulose for paints - Specification   |             | - | Indigenous                     |
| 15 | IS 18563 : 2024  | Nanomodified Paints and Coatings $\dot{\iota}$ <sub>1/2</sub> Code of Practice  |             | - | Indigenous                     |
| 16 | IS 1872 : 2020   | Thinner for synthetic paints and varnishes for aircrafts - Specification ( First Revision )   | -           | - | Indigenous                     |
| 17 | IS 1873 : 2019<br><br>Reviewed In : 2024<br>Decision taken to Reaffirm and Archive | Antichill thinner for cellulose nitrate based paints, dopes and lacquers for aircrafts - Specification (First Revision)                     | March, 2024 | - | Indigenous                     |
| 18 | IS 19003 : 2022  | Re-dispersible polymer powder - Specification   |             | - | Indigenous                     |
| 19 | IS 289 : 2021  | Aluminium paste for paints - Specification (Second Revision)  |             | - | Indigenous                     |
| 20 | IS 33 : 1992<br>Reviewed In : 2019   | Inorganic pigments and extenders for paints - Methods of sampling and test (Third Revision)   | March, 2019 | 1 | Indigenous                     |
| 21 | IS 3493 : 1978<br>Reviewed In : 2022<br>Decision taken to Reaffirm and Archive     | Methods of sampling and test for organic pigments for paints (First Revision)   | May, 2022   | 1 | Indigenous                     |
| 22 | IS 35 : 2021   | Zinc oxide for paints - Specification ( Second Revision )   |             | - | Indigenous                     |
| 23 | IS 3520 : 1992<br>Reviewed In : 2019   | Water-soluble sodium carboxymethyl cellulose - Specification (Second Revision)  | March, 2019 | - | Indigenous                     |
| 24 | IS 3526 : 1981<br>Reviewed In : 2022<br>Decision taken to Reaffirm and Archive     | Specification for barium chromate for paints (First Revision)   | May, 2022   | 1 | Indigenous                     |
| 25 | IS 3527 : 1972<br>Reviewed In : 2024<br>Decision taken to Reaffirm and Archive     | Specification for mica for paints (First Revision)  | March, 2024 | 1 | Indigenous                     |
| 26 | IS 354 (Part 1) : 2024   | METHODS OF SAMPLING AND TEST FOR RESINS FOR PAINTS PART 1 GENERAL TEST METHODS (Third Revision)   |             | - | Indigenous                     |
| 27 | IS 354 (Part 1) : 1987<br>Reviewed In : 2022                                       | Methods of sampling and test for resins for paints: Part 1 general test methods (Second Revision)   | May, 2022   | 2 | Indigenous                     |
| 28 | IS 354 (Part 2) : 2024   | Resins for Paints $\dot{\iota}$ <sub>1/2</sub> Methods of Sampling and Test Part 2 Special Test Methods for Alkyd Resins ( Third Revision ) |             | - | Indigenous                     |
| 29 | IS 354 (Part 3) : 2024   | Methods of sampling and test for resins for paints : Part 3 special test  |             | - | Indigenous                     |

|    |   |  |              |   |            |
|----|---|--|--------------|---|------------|
|    |   | methods for phenolic resins (Third Revision)   |              |   |            |
| 30 | IS 354 (Part 4) : 2024  | Resins for paints - Methods of sampling and test Part : 4 special test methods for epoxy resins (Third Revision)                                   |              | - | Indigenous |
| 31 | IS 354 (Part 5) : 2024  | Resins for paints - Methods of sampling and test : Part 5 Special test methods for polyamide resins (Third Revision)                               |              | - | Indigenous |
| 32 | IS 354 (Part 6) : 1989<br>Reviewed In : 2022                                  | Resins for paints - Methods of sampling and test: Part 6 Special test methods for amino resins (Second Revision)                                   | May, 2022    | - | Indigenous |
| 33 | IS 354 (Part 7) : 1989<br>Reviewed In : 2022                                  | Resins for paints - Methods of sampling and test: Part 7 Special test methods for acrylic and vinyl acetate resins and emulsions (Second Revision) | May, 2022    | - | Indigenous |
| 34 | IS 354 (Part 7) : 2024  | Resins for Paints $\frac{1}{2}$ Methods of Sampling and Test Part 7 Special Test Methods for Acrylic and Vinyl Acetate Emulsions (Third Revision)  |              | - | Indigenous |
| 35 | IS 356 : 1991<br>Reviewed In : 2022   | Ester gum - Specification (Second Revision)  | May, 2022    | - | Indigenous |
| 36 | IS 3574 (Part 1) : 1965<br>Reviewed In : 2019                                 | Specification for organic pigments for paints: Part 1 Azo pigments (toluidine red, chlorinated p-nitroaniline red, arylamide yellow, and para red) | March, 2019  | - | Indigenous |
| 37 | IS 3574 (Part 2) : 2000<br>Reviewed In : 2021                                 | Organic pigments for paints - Specification: Part 2 phthalocyanines (First Revision)   | March, 2021  | - | Indigenous |
| 38 | IS 38 : 1976<br>Reviewed In : 2019  | Specification for antimony oxide for paints (First Revision)   | March, 2019  | 1 | Indigenous |
| 39 | IS 40 : 2021  | Carbon black for paints - Specification ( Second Revision )  |              | - | Indigenous |
| 40 | IS 411 : 2020   | Titanium dioxide, anatase, for paints - Specification ( Fourth Revision )  | -            | 1 | Indigenous |
| 41 | IS 44 : 1991<br>Reviewed In : 2022  | Iron oxide pigments for paints - Specification (Second Revision)   | May, 2022    | 1 | Indigenous |
| 42 | IS 51 : 1998<br>Reviewed In : 2023  | Zinc chrome for paints - Specification (Fourth Revision)   | August, 2023 | - | Indigenous |
| 43 | IS 54 : 1988<br>Reviewed In : 2019  | Specification for green oxide of chromium for paints (Second Revision)   | March, 2019  | - | Indigenous |
| 44 | IS 55 : 1970<br>Reviewed In : 2019  | Specification for ultramarine blue for paints (First Revision)   | March, 2019  | 2 | Indigenous |
| 45 | IS 553 : 1984<br>Reviewed In : 2024<br>Decision taken to Reaffirm and Archive | Specification for rosin (Gum Rosin) (Second Revision)  | March, 2024  | 2 | Indigenous |
| 46 | IS 56 : 1993<br>Reviewed In : 2019  | Prussian blue (Iron blue) for paints - Specification (Second Revision)   | March, 2019  | - | Indigenous |
| 47 | IS 62 : 2006<br>Reviewed In : 2021  | Graphite for Paints-Specification  | March, 2021  | - | Indigenous |

|    |  |   |             |   |            |
|----|--|---|-------------|---|------------|
| 48 | IS 63 : 2006<br>Reviewed In : 2021   | Whiting for paint and putty - Specification (Third Revision)                                | March, 2021 | - | Indigenous |
| 49 | IS 64 : 2023   | Barium sulphate pigments for paints - Specification (Second Revision)                       |             | - | Indigenous |
| 50 | IS 642 : 2024  | Varnish Medium for Aluminium Paint " Specification (Second Revision)                        |             | - | Indigenous |
| 51 | IS 642 : 1963<br>Reviewed In : 2019  | Specification for varnish medium for aluminium paint (Revised)                              | May, 2019   | 2 | Indigenous |
| 52 | IS 644 : 2023  | Dipentene for paints - Specification (Third Revision)                                       |             | - | Indigenous |
| 53 | IS 66 : 2024   | Hydrated magnesium silicate (Talc) for paints - Specification (Third Revision)              |             | - | Indigenous |
| 54 | IS 67 : 1998<br>Reviewed In : 2024<br>Decision taken to Reaffirm and Archive   | Silica for paints - Specification (Second Revision)   | March, 2024 | - | Indigenous |
| 55 | IS 68 : 2006<br>Reviewed In : 2021   | China clay (Kaolin) for paints - Specification (Second Revision)                            | March, 2021 | - | Indigenous |
| 56 | IS 70 : 1980<br>Reviewed In : 2024   | Specification for cuprous oxide for paints (First Revision)                                 | March, 2024 | 2 | Indigenous |
| 57 | IS 70 : 2024   | Cuprous Oxide for Paints " Specification (Second Revision)                                  |             | - | Indigenous |
| 58 | IS 74 : 1979<br>Reviewed In : 2022   | Methods of sampling and test for drying oils for paints (Second Revision)                   | May, 2022   | - | Indigenous |
| 59 | IS 77 : 1976<br>Reviewed In : 2024<br>Decision taken to Reaffirm and Archive   | Specification for linseed oil, boiled, for paints (Second Revision)                         | March, 2024 | - | Indigenous |
| 60 | IS 79 : 2021   | Specification for linseed stand oil for paints (Second Revision)                            |             | - | Indigenous |
| 61 | IS 80 : 1991<br>Reviewed In : 2022   | Tung oil for paints - Specification (Second Revision)                                       | May, 2022   | - | Indigenous |
| 62 | IS 81 : 1989<br>Reviewed In : 2024<br>Decision taken to Reaffirm and Archive   | Dehydrated castor oil for paints - Specification (Second Revision)                          | March, 2024 | - | Indigenous |
| 63 | IS 82 : 1973<br>Reviewed In : 2022   | Methods of sampling and test for thinners and solvents for paints (First Revision)          | May, 2022   | 2 | Indigenous |
| 64 | IS 840 : 1986<br>Reviewed In : 2022<br>Decision taken to Reaffirm and Archive  | Cashewnut shell liquid (CNSL) (Second Revision)   | May, 2022   | - | Indigenous |
| 65 | IS 8766 : 1978<br>Reviewed In : 2024<br>Decision taken to Reaffirm and Archive | Specification for driers for paints   | March, 2024 | - | Indigenous |
| 66 | IS 8767 : 2020   | Calcium carbonate, precipitated, and activated, for paints - Specification (First Revision) | -           | - | Indigenous |

|    |                |  |   |            |
|----|----------------|--|---|------------|
| 67 | IS 9788 : 2023 | Titanium dioxide rutile for paints- Specification (First Revision) | - | Indigenous |
|----|----------------|--|---|------------|

### 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 21 (26606) Revision of: IS 56:1993    | PRUSSIAN BLUE IRON BLUE FOR PAINTS- SPECIFICATION Third Revision |
| 2       | CHD 21 (26607) Revision of: IS 55:1970    | ULTRAMARINE BLUE FOR PAINTS - SPECIFICATION Second Revision      |
| 3       | CHD 21 (26609) Revision of: IS 15366:2003 | Dolomite for paint - Specification First Revision                |
| 4       | CHD 21 (26613) Revision of: IS 840:1986   | Cashewnut shell liquid CNSL -Specification Third Revision        |

#### Draft Standards Completed WC Stage

| SI. No. | Doc No.                                 | Title   |
|---------|---|---|
| 1       | CHD 21 (24871) Revision of: IS 840:1986 | IRON OXIDE PIGMENTS FOR PAINTS SPECIFICATION Third revision     |
| 2       | CHD 21 (24898) Revision of: IS 840:1986 | ZINC CHROME PIGMENTS FOR PAINTS SPECIFICATION Fifth Revision    |
| 3       | CHD 21 (24902) Revision of: IS 840:1986 | GREEN OXIDE OF CHROMIUM FOR PAINTS SPECIFICATION Third Revision |

#### 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 21 (20960) Revision of: IS 354:1986 | METHODS OF SAMPLING AND TEST FOR RESINS FOR PAINTS PART 4 SPECIAL TEST METHODS FOR EPOXY RESINS Third Revision |
| 2       | CHD 21 (20968) Revision of: IS 354:1989 | RESINS FOR PAINTS METHODS OF SAMPLING AND TEST PART 6 SPECIAL TEST METHODS FOR AMINO RESINS Third Revision     |

**Total Published Standards:61 Total Standards Under development:9**

### Aspect Wise Report

Product : 47  
Code of Practices : 1  
Methods of Test : 13

Terminology : 1  
Dimensions : 0  
System Standard : 0  
Safety Standard : 0  
Others : 0  
Service Specification : 0  
Process Specification : 0  
Unclassified : 0

### Annexure-I :List of Indian Standards Withdrawn/Superseded

| Sl. No. | IS No. & Year                      | Title     |
|---------|------------------------------------|-----------|
| 1       | IS 50 : 1980<br>Reviewed In : 2019 | Withdrawl |
| 2       | IS 58 : 1976<br>Reviewed In : 2019 | Withdrawl |

### Annexure-II :List of Indian Product Standards

| Sl. No. | IS No. & Year   | Title  |
|---------|---|--|
| 1       | IS 10897 : 1984<br>Reviewed In : 2024<br>Decision taken to Reaffirm and Archive | Specification for zinc phosphate pigment for paints  |
| 2       | IS 11811 : 2021<br>ISO 27269:2021   | Specification for alkyd resin First Revision   |
| 3       | IS 13467 : 2024   | CHLORINATED RUBBER FOR PAINTS SPECIFICATION First Revision   |
| 4       | IS 13966 : 1994<br>Reviewed In : 2019   | Sodium carboxymethyl cellulose for use in oil industry - Specification   |
| 5       | IS 14355 : 2022<br>ISO 17450-3:2016   | Zinc dust pigment for paints - Specification First Revision  |
| 6       | IS 14499 : 2021<br>ISO 20140-5 : 2017   | Strontium chromate for paints - Specification First Revision   |
| 7       | IS 14925 : 2001<br>Reviewed In : 2022<br>Decision taken to Reaffirm and Archive | Epoxy resin for paints - Specification   |
| 8       | IS 15365 : 2019<br>87.060.20  | Amino resins for paints First Revision   |
| 9       | IS 15366 : 2003<br>Reviewed In : 2019   | Dolomite for paint industry - Specification  |
| 10      | IS 17727 : 2021<br>8096:2005  | Water-soluble sodium carboxymethyl cellulose for paints - Specification  |
| 11      | IS 1872 : 2020  | Thinner for synthetic paints and varnishes for aircrafts - Specification First Revision                              |
| 12      | IS 1873 : 2019<br>Reviewed In : 2024<br>Decision taken to Reaffirm and Archive  | Antichill thinner for cellulose nitrate based paints dopes and lacquers for aircrafts - Specification First Revision |
| 13      | IS 19003 : 2022<br>ISO/TR 4421:2023   | Re-dispersible polymer powder - Specification  |
| 14      | IS 289 : 2021   | Aluminium paste for paints - Specification Second Revision   |
| 15      | IS 35 : 2021  | Zinc oxide for paints - Specification Second Revision  |

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|    | iso 26262-4:2018   |  |
| 16 | IS 3520 : 1992<br>Reviewed In : 2019   | Water-soluble sodium carboxymethyl cellulose - Specification Second Revision   |
| 17 | IS 3526 : 1981<br>Reviewed In : 2022<br>Decision taken to Reaffirm and Archive | Specification for barium chromate for paints First Revision  |
| 18 | IS 3527 : 1972<br>Reviewed In : 2024<br>Decision taken to Reaffirm and Archive | Specification for mica for paints First Revision   |
| 19 | IS 356 : 1991<br>Reviewed In : 2022  | Ester gum - Specification Second Revision  |
| 20 | IS 3574 (Part 1) : 1965<br>Reviewed In : 2019                                  | Specification for organic pigments for paints Part 1 Azo pigments toluidine red chlorinated p-nitroaniline red arylamide yellow and para red |
| 21 | IS 3574 (Part 2) : 2000<br>Reviewed In : 2021                                  | Organic pigments for paints - Specification Part 2 phthalocyanines First Revision  |
| 22 | IS 38 : 1976<br>Reviewed In : 2019   | Specification for antimony oxide for paints First Revision   |
| 23 | IS 40 : 2021<br>ISO/IEC 19086 - 3 : 2017                                       | Carbon black for paints - Specification Second Revision  |
| 24 | IS 411 : 2020  | Titanium dioxide anatase for paints - Specification Fourth Revision  |
| 25 | IS 44 : 1991<br>Reviewed In : 2022   | Iron oxide pigments for paints - Specification Second Revision   |
| 26 | IS 51 : 1998<br>Reviewed In : 2023   | Zinc chrome for paints - Specification Fourth Revision   |
| 27 | IS 54 : 1988<br>Reviewed In : 2019   | Specification for green oxide of chromium for paints Second Revision   |
| 28 | IS 55 : 1970<br>Reviewed In : 2019   | Specification for ultramarine blue for paints First Revision   |
| 29 | IS 553 : 1984<br>Reviewed In : 2024<br>Decision taken to Reaffirm and Archive  | Specification for rosin Gum Rosin Second Revision  |
| 30 | IS 56 : 1993<br>Reviewed In : 2019   | Prussian blue Iron blue for paints - Specification Second Revision   |
| 31 | IS 62 : 2006<br>Reviewed In : 2021   | Graphite for Paints-Specification  |
| 32 | IS 63 : 2006<br>Reviewed In : 2021   | Whiting for paint and putty - Specification Third Revision   |
| 33 | IS 64 : 2023   | Barium sulphate pigments for paints - Specification Second Revision  |
| 34 | IS 642 : 2024  | Varnish Medium for Aluminium Paint Specification Second Revision   |
| 35 | IS 644 : 2023  | Dipentene for paints - Specification Third Revision  |
| 36 | IS 66 : 2024   | Hydrated magnesium silicate Talc for paints - Specification Third Revision   |
| 37 | IS 67 : 1998<br>Reviewed In : 2024<br>Decision taken to Reaffirm and Archive   | Silica for paints - Specification Second Revision  |
| 38 | IS 68 : 2006<br>Reviewed In : 2021   | China clay Kaolin for paints - Specification Second Revision   |
| 39 | IS 70 : 2024   | Cuprous Oxide for Paints Specification Second Revision   |
| 40 | IS 77 : 1976   | Specification for linseed oil boiled for paints Second Revision  |

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|    | Reviewed In : 2024<br>Decision taken to Reaffirm<br>and Archive                   |  |
| 41 | IS 79 : 2021  | Specification for linseed stand oil for paints Second Revision                         |
| 42 | IS 80 : 1991<br>Reviewed In : 2022  | Tung oil for paints - Specification Second Revision                                    |
| 43 | IS 81 : 1989<br>Reviewed In : 2024<br>Decision taken to Reaffirm<br>and Archive   | Dehydrated castor oil for paints - Specification Second Revision                       |
| 44 | IS 840 : 1986<br>Reviewed In : 2022<br>Decision taken to Reaffirm<br>and Archive  | Cashewnut shell liquid CNSL Second Revision  |
| 45 | IS 8766 : 1978<br>Reviewed In : 2024<br>Decision taken to Reaffirm<br>and Archive | Specification for driers for paints  |
| 46 | IS 8767 : 2020  | Calcium carbonate precipitated and activated for paints - Specification First Revision |
| 47 | IS 9788 : 2023  | Titanium dioxide rutile for paints- Specification First Revision                       |