

## BUREAU OF INDIAN STANDARDS

### Program of Work

#### TXD 40 : High Performance Fibres, Fibrous Structure and Textile Components of Composites

**Scope:** To formulate Indian standards for terminology, testing, code of practice and specifications for high performance fibres, fibrous structure, and textile components of composites.

**Liaison:** **ISO TC-38 (P): Textiles**

### Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 11273:2023	TEXTILES WOVEN ROVING FABRICS OF E GLASS FIBRE SPECIFICATION Second Revision of IS 11273		-	Indigenous
2	IS 11320:2024	Textiles $\text{ï}_\text{c}^{1/2}$ Glass Fibre Rovings for the Reinforcement of Polyester, Phenolic, Vinyl Ester and of Epoxide Thermoset Resin Systems $\text{ï}_\text{c}^{1/2}$ Specification (Second Revision of IS 11320)		-	Indigenous
3	IS 11551:2024	Textiles $\text{ï}_\text{c}^{1/2}$ Glass Fibre Chopped Strand Mat for the Reinforcement of Epoxy, Vinyl Ester, Phenolic and Polyester Thermoset Resin Systems $\text{ï}_\text{c}^{1/2}$ Specification (Second Revision of IS 11551)		-	Indigenous
4	IS 17297:2025 ISO 1888:2022 ISO 1888:2022	TEXTILE GLASS $\text{ï}_\text{c}^{1/2}$ STAPLE FIBRES OR FILAMENTS $\text{ï}_\text{c}^{1/2}$ DETERMINATION OF AVERAGE DIAMETER (First Revision)		-	Identical under dual numbering
5	IS 17298:2019 ISO 1889 : 2009 Reviewed In : 2023 ISO 1889:2009	Reinforcement yarns – Determination of linear density	September, 2023	-	Identical under dual numbering
6	IS 17299:2019 ISO 1890 : 2009 Reviewed In : 2023 ISO 1890:2009	Reinforcement yarns – Determination of twist	September, 2023	-	Identical under dual numbering
7	IS 17300:2025 ISO 2078:2022 ISO 2078:2022	TEXTILE GLASS $\text{ï}_\text{c}^{1/2}$ YARNS $\text{ï}_\text{c}^{1/2}$ DESIGNATION (First Revision)		-	Identical under dual numbering
8	IS 17301:2019 ISO 3341 : 2000 Reviewed In : 2023 ISO 3341:2000	Textile glass – Yarns – Determination of breaking force and breaking elongation	September, 2023	-	Identical under dual numbering
9	IS 17302:2019 ISO 3342 : 2011	Textile glass – Mats – Determination of tensile breaking	September, 2023	-	Identical under dual numbering

	Reviewed In : 2023 ISO 3342:2011	force			
10	IS 17303:2019 ISO 3343 : 2010 Reviewed In : 2023 ISO 3343:2010	Reinforcement yarns – Determination of twist balance index	September, 2023	-	Identical under dual numbering
11	IS 17304:2019 ISO 3375 : 2009 Reviewed In : 2023 ISO 3375:2009	Textile glass – Determination of stiffness of rovings	September, 2023	-	Identical under dual numbering
12	IS 17305:2019 ISO 4602 : 2010 Reviewed In : 2023 ISO 4602:2010	Reinforcements – Woven fabrics – Determination of number of yarns per unit length of warp and weft	September, 2023	-	Identical under dual numbering
13	IS 17306:2025 ISO 10119:2020 ISO 10119:2020	CARBON FIBRE - DETERMINATION OF DENSITY (First Revision)		-	Identical under dual numbering
14	IS 17307:2019 IOS 11567 : 2018 Reviewed In : 2023 ISO 11567:2018	Carbon fibre – Determination of filament diameter and cross- sectional area	September, 2023	-	Identical under dual numbering
15	IS 17308:2019 ISO 13002 : 1998 Reviewed In : 2023 ISO 13002:1998	Carbon fibre – Designation system for filament yarns	September, 2023	-	Identical under dual numbering
16	IS 17309:2019 ISO 3374 : 2000 Reviewed In : 2023 ISO 3374:2000	Reinforcement products – Mats and fabrics – Determination of mass per unit area	September, 2023	-	Identical under dual numbering
17	IS 17311:2019 ISO 11566 : 2017 Reviewed In : 2023 ISO 11566:1996	Carbon fibre – Determination of the tensile properties of single- filament specimens	September, 2023	-	Identical under dual numbering
18	IS 17312:2019 ISO 4603 : 1993 Reviewed In : 2023 ISO 4603:1993	Textile glass – Woven fabrics – Determination of thickness	September, 2023	-	Identical under dual numbering
19	IS 17313:2019 ISO 3344 : 1997 Reviewed In : 2023 ISO 3344:1997	Reinforcement products – Determination of moisture content	September, 2023	-	Identical under dual numbering
20	IS 17592:2021 ISO 5025:2017 Reviewed In : 2025 ISO 5025:2017	Reinforcement products -- Woven fabrics -- Determination of width and length	September, 2025	-	Identical under dual numbering
21	IS 17593:2021 ISO 8516:2011 Reviewed In : 2025 ISO 8516:2011	Textile glass -- Textured yarns -- Basis for a specification	September, 2025	-	Identical under dual numbering
22	IS 17594:2021 ISO 4900:2011 Reviewed In : 2025 ISO 4900:2011	Textile glass -- Mats and fabrics -- Determination of contact mouldability	September, 2025	-	Identical under dual numbering
23	IS 17595:2021 ISO 4606:1995 Reviewed In : 2025 ISO 4606:1995	Textile glass -- Woven fabric -- Determination of tensile breaking force and elongation at break by the strip method	September, 2025	-	Identical under dual numbering
24	IS 17596:2021 ISO 3616:2001	Textile glass -- Chopped-strand and continuous-filament mats --	September, 2025	-	Identical under dual numbering

	Reviewed In : 2025 ISO 3616:2001	Determination of average thickness thickness under load and recovery after compression			
25	IS 17597:2021 ISO 3598:2011 Reviewed In : 2025 ISO 3598:2011	Textile glass -- Yarns -- Basis for a specification	September, 2025	-	Identical under dual numbering
26	IS 17598:2021 ISO 2797:2017 Reviewed In : 2025 ISO 2797:2017	Textile glass -- Rovings -- Basis for a specification	September, 2025	-	Identical under dual numbering
27	IS 17599:2021 ISO 2113:1996 Reviewed In : 2025 ISO 2113:1996	Reinforcement fibres -- Woven fabrics -- Basis for a specification	September, 2025	-	Identical under dual numbering
28	IS 17600:2021 ISO 1887:2014 Reviewed In : 2025 ISO 1887:2014	Textile glass -- Determination of combustible-matter content	September, 2025	-	Identical under dual numbering
29	IS 17601:2021 ISO 10122:2014 Reviewed In : 2025 ISO 10122:2014	Reinforcement materials -- Tubular braided sleeves -- Basis for a specification	September, 2025	1	Identical under dual numbering
30	IS 17602:2021 ISO 10371:1993 Reviewed In : 2025 ISO 10371:1993	Reinforcement materials -- Braided tapes -- Basis for a specification	September, 2025	-	Identical under dual numbering
31	IS 17603:2021 ISO 13931:2013 Reviewed In : 2025 ISO 13931:2013	Carbon fibre -- Determination of volume resistivity	September, 2025	-	Identical under dual numbering
32	IS 17604:2021 ISO 15039:2003 Reviewed In : 2025 ISO 15039:2003	Textile - glass rovings -- Determination of solubility of size	September, 2025	-	Identical under dual numbering
33	IS 17605:2021 ISO 10548:202 Reviewed In : 2025 ISO 10548:202	Carbon fibre Determination of size content	September, 2025	-	Identical under dual numbering
34	IS 17611:2021 ISO 4604:2011 Reviewed In : 2025 ISO 4604:2011	Reinforcement fabrics -- Determination of conventional flexural stiffness -- Fixed-angle flexometer method	September, 2025	-	Identical under dual numbering
35	IS 18453:2023 ISO 2558 : 2010 ISO 2558 : 2010	Textile Glass Chopped-Strand Mats for Reinforcement of Plastics Determination of Time of Dissolution of the Binder in Styrene		-	Identical under dual numbering
36	IS 18454:2023 ISO 2559 : 2011 ISO 2559 : 2011	Textile Glass Mats Made from Chopped or Continuous Strands Designation and Basis for Specifications		-	Identical under dual numbering
37	IS 18455:2023 ISO 10618 : 2004 ISO 10618 : 2004	Carbon Fibre Determination of Tensile Properties of Resin- Impregnated Yarn		-	Identical under dual numbering
38	IS 18456:2023 ISO 15100 : 2000 ISO 15100 : 2000	Plastics Reinforcement Fibres Chopped Strands Determination of Bulk Density		-	Identical under dual numbering
39	IS 18457:2023	Plastics Glass-Fibre-Reinforced		-	Identical under dual

	ISO 22314 : 2006 ISO 22314 : 2006	Products Determination of Fibre Length			numbering
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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
No Records Found		

Draft Standards Completed WC Stage		
SI. No.	Doc No.	Title
1	TXD 40 (28722)	TEXTILE GLASS CHOPPED-STRAND AND CONTINUOUS-FILAMENT MATS DETERMINATION OF AVERAGE THICKNESS THICKNESS UNDER LOAD AND RECOVERY AFTER COMPRESSION First Revision
2	TXD 40 (28726)	REINFORCEMENT FIBRES WOVEN FABRICS REQUIREMENTS AND SPECIFICATIONS First Revision

Finalized Draft Indian Standard		
SI. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standards under Print		
SI. No.	Doc No.	Title
No Records Found		

Total Published Standards:34	Total Standards Under development:2
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Aspect Wise Report

Product : 4

Code of Practices : 6

Methods of Test : 27

Terminology : 2

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

SI. No.	IS No. & Year	Title
No Records Found		

<b>Annexure-II :List of Indian Product Standards</b>
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SI. No.	IS No. & Year	Title
1	IS 11273:2023	TEXTILES WOVEN ROVING FABRICS OF E GLASS FIBRE SPECIFICATION Second Revision of IS 11273
2	IS 11320:2024	Textiles Glass Fibre Rovings for the Reinforcement of Polyester Phenolic Vinyl Ester and of Epoxide Thermoset Resin Systems Specification Second Revision of IS 11320
3	IS 11551:2024	Textiles Glass Fibre Chopped Strand Mat for the Reinforcement of Epoxy Vinyl Ester Phenolic and Polyester Thermoset Resin Systems Specification Second Revision of IS 11551
4	IS 18454:2023 ISO 2559 : 2011	Textile Glass Mats Made from Chopped or Continuous Strands Designation and Basis for Specifications