

## BUREAU OF INDIAN STANDARDS

### Program of Work

#### TXD 13 : Textile Materials for Aeronautical and Related Products

**Scope:** To formulate Indian standards for terminology and specifications for textile materials for aeronautical and related products.

**Liaison:**

### Published Standards

| S.No | IS No.  | TITLE   | Reaffirm M-Y | No. of Amds | Eqv.       |
|------|---|---|--------------|-------------|------------|
| 1    | IS 10476:1983   | Specification for woven roving glass fabric for polyester - glass laminates for aerospace purposes          | July, 2024   | -           | Indigenous |
| 2    | IS 11326:1985<br>Reaffirmed but not taken up for revision | Specification for nylon fabrics for coating with natural or synthetic elastomers                            | July, 2019   | -           | Indigenous |
| 3    | IS 11367:1985   | Glossary of terms relating to textile materials for aerospace purposes                                      | July, 2024   | 1           | Indigenous |
| 4    | IS 11916:2001   | Textiles – Continuous filament glass yarn for aerospace and other purposes – Specification (first revision) | July, 2024   | -           | Indigenous |
| 5    | IS 1376:1998  | Textiles – Cotton sewing threads for aerospace purposes – Specification (third revision)                    | July, 2024   | -           | Indigenous |
| 6    | IS 1402:2024  | Textiles “ Braided Cotton Cord for Aerospace Purposes “ Specification (Third Revision)                      |              | -           | Indigenous |
| 7    | IS 14564:1998   | Textiles - Cotton tapes for personnel parachutes - Specification  | July, 2024   | -           | Indigenous |
| 8    | IS 19208:2025   | Textiles Nylon Tape For Aircraft Arrestor Barrier Specification   |              | -           | Indigenous |
| 9    | IS 2196:2024  | Textiles - Linen (Flax) Sewing Thread for Aerospace Purposes - Specification (Third Revision)               |              | -           | Indigenous |
| 10   | IS 2197:2000  | Aerospace textiles – Braided (Plaited) linen (flax) lacing cord – Specification (second revision)           | July, 2024   | -           | Indigenous |
| 11   | IS 3255:2024  | Textiles ½ Scoured or Dyed Cotton Tapes for Aerospace Purposes ½ Specification (Second Revision)            |              | -           | Indigenous |
| 12   | IS 3449:2024  | Textiles “ Cotton Webbing for Parachutes “ Specification (Third Revision)                                   |              | -           | Indigenous |

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|----|--|--|-------------|---|------------|
| 13 | IS 3846:1984   | Specification for rot-proofed cotton tapes for aerospace purposes (first revision)   | July, 2024  | 2 | Indigenous |
| 14 | IS 4227:2024   | Textiles i½ Braided Nylon Cords for Aerospace Purposes i½ Specification third revision   |             | - | Indigenous |
| 15 | IS 4228:2023   | Textiles-Nylon tapes for aerospace purposes-Specification  |             | - | Indigenous |
| 16 | IS 4229:2024   | Textiles i½ Nylon Sewing Threads for Aerospace Purposes i½ Specification (Third revision)  |             | - | Indigenous |
| 17 | IS 4719:1984<br>Reaffirmed but not taken up for revision | Specification for wire-woven rayon fabric for aerospace purposes (second revision)   | July, 2019  | - | Indigenous |
| 18 | IS 4726:2025   | Textiles Light Weight Nylon Fabrics for Parachutes Specification (Second Revision)   |             | - | Indigenous |
| 19 | IS 4727:2020   | Textiles – Nylon webbing for aeronautical purposes – Specification (first revision)  | March, 2025 | 1 | Indigenous |
| 20 | IS 514:2025  | Textiles Mercerized Cotton Fabrics for Covering Aircrafts and gliders Specification ( Fourth Revision )  |             | - | Indigenous |
| 21 | IS 5746 (Part 3):1987                                    | Woven glass fibres fabric for plastic laminates for aerospace purposes - Part 3 Finished fabrics for use with polyester resin systems (second revision)                            | July, 2024  | - | Indigenous |
| 22 | IS 5746 (Part 2):2025                                    | Textiles — Woven Glass Fibres Fabrics for Plastic Laminates for Aerospace Purposes — Specification Part 2 Desized Fabrics ( Third Revision )                                       |             | - | Indigenous |
| 23 | IS 5746 (Part 3):2025                                    | Textiles — Woven Glass Fibres Fabrics for Plastic Laminates for Aerospace Purposes — Specification Part 3 Finished Fabrics for Use with Polyester Resin Systems ( Third Revision ) |             | - | Indigenous |
| 24 | IS 5746 (Part 1):2025                                    | Textiles — Woven Glass Fibres Fabrics for Plastic Laminates for Aerospace Purposes — Specification Part 1 Loom-State Fabrics ( Third Revision )                                    |             | - | Indigenous |
| 25 | IS 5746 (Part 1):1987                                    | Specification for woven glass fibre fabrics for plastic laminates for aerospace purposes - Part 1 Loom-state fabrics (second revision)   | July, 2024  | - | Indigenous |
| 26 | IS 5746 (Part 2):1987                                    | Woven glass fibre fabrics for plastic laminates for aerospace purposes - Part 2 Desized fabrics (second revision)  | July, 2024  | - | Indigenous |
| 27 | IS 6349:2024   | Textiles - Tubular Nylon Tapes for Aerospace Applications - Specification (Second Revision)  |             | - | Indigenous |
| 28 | IS 6674:2021   | Textiles - Cotton webbing for use in packing aero-engines -  | -           | - | Indigenous |

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|----|--------------|--|------------|---|------------|
|    |              | Specification (first revision)   |            |   |            |
| 29 | IS 6879:2021 | Textiles - Fabric for target banner radar responsive - Specification (first revision)        | -          | - | Indigenous |
| 30 | IS 6900:2021 | Textiles - Proofed nylon leno fabric - Specification (first revision)                        | -          | - | Indigenous |
| 31 | IS 714:1992  | Textiles – Cotton reinforcing tapes for aerospace purposes – Specification (third revision)  | July, 2024 | - | Indigenous |
| 32 | IS 8947:2021 | Textiles - Material nylon webbing for aircraft safety belts - Specification (first revision) | -          | - | Indigenous |
| 33 | IS 9267:2021 | Textiles - Tubular nylon webbing for aerospace purposes - 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 |
|-------------------------|---------|-------|
| <i>No Records Found</i> |         |       |

#### Draft Standards Completed WC Stage

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

#### 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       | TXD 13 (15277)          | Specification for light weight nylon fabric for parachutes First Revision Amendment - 4                          |
| 2       | TXD 13 (15279)          | Specification for tape nylon tubular for aerospace applications First Revision Amendment - 3                     |
| 3       | TXD 13 (15284)          | Textiles - Braided nylon cords for aerospace purposes - Specification Second Revision Amendment - 1              |
| 4       | TXD 13 (15468)          | Specification for tubular nylon webbing for aerospace purposes Amendment - 1                                     |
| 5       | TXD 13 (15797)          | Amendment No 1 to IS 15041 2001 Textiles Flat Woven Webbing Slings Made of Man-Made Fibres for General Services  |
| 6       | TXD 13 (15800)          | Amendment no 1 to IS 1402 1992 Textiles Braided Cotton Cord for Aerospace Purposes Specification Second Revision |
| 7       | TXD 13 (15833) Revision | Textiles Nylon Webbing for Aeronautical Purposes Specification First Revision                                    |

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|----|--|--|
|    | of: IS 4727:2020                         |  |
| 8  | TXD 13 (16915) Revision of: IS 6674:1972 | Textiles - Cotton webbing for use in packing aero-engines - Specification first revision   |
| 9  | TXD 13 (16916) Revision of: IS 6879:1973 | Textiles - Fabric for target banner radar responsive - Specification first revision  |
| 10 | TXD 13 (16917) Revision of: IS 6900:1973 | Textiles - Proofed nylon leno fabric - Specification first revision  |
| 11 | TXD 13 (16918) Revision of: IS 8947:1978 | Textiles - Material nylon webbing for aircraft safety belts - Specification first revision   |
| 12 | TXD 13 (16919) Revision of: IS 9267:1979 | Textiles - Tubular nylon webbing for aerospace purposes - Specification first revision   |
| 13 | TXD 13 (19356)                           | Textiles Nylon webbing for aeronautical purposes Specification first revision Amendment - 1  |
| 14 | TXD 13 (19707) Revision of: IS 4228:1979 | Textiles-Nylon tapes for aerospace purposes-Specification  |
| 15 | TXD 13 (21136) Revision of: IS 1402:1992 | TEXTILES -BRAIDED COTTON CORD FOR AEROSPACE PURPOSES -SPECIFICATION Third Revision   |
| 16 | TXD 13 (21155) Revision of: IS 3255:1979 | Textiles Scoured or Dyed Cotton Tapes for Aerospace Purposes Specification   |
| 17 | TXD 13 (22121) Revision of: IS 4227:1998 | Textiles Braided Nylon Cords for Aerospace Purposes Specification third revision   |
| 18 | TXD 13 (22617) Revision of: IS 3449:1984 | Textiles Cotton Webbing for Parachutes Specification   |
| 19 | TXD 13 (22872) Revision of: IS 4229:1992 | Textiles Nylon Sewing Threads for Aerospace Purposes Specification Third revision  |
| 20 | TXD 13 (24731) Revision of: IS 6349:1981 | Textiles Tubular Nylon Tapes for Aerospace Applications Specification Second Revision  |
| 21 | TXD 13 (24777) Revision of: IS 2196:1985 | Textiles Linen Flax Sewing Thread for Aerospace Purposes Specification Third Revision  |
| 22 | TXD 13 (26348) Revision of: IS 4726:1984 | Textiles Light Weight Nylon Fabrics for Parachutes Specification Second Revision   |
| 23 | TXD 13 (26373) Revision of: IS 5746:1987 | Textiles Woven Glass Fibres Fabrics for Plastic Laminates for Aerospace Purposes Specification Part 2 Desized Fabrics Third Revision                                       |
| 24 | TXD 13 (26376) Revision of: IS 5746:1987 | Textiles Woven Glass Fibres Fabrics for Plastic Laminates for Aerospace Purposes Specification Part 3 Finished Fabrics for Use with Polyester Resin Systems Third Revision |
| 25 | TXD 13 (26488) Revision of: IS 5746:1987 | Textiles Woven Glass Fibres Fabrics for Plastic Laminates for Aerospace Purposes Specification Part 1 Loom-State Fabrics Third Revision                                    |
| 26 | TXD 13 (26618)                           | Textiles Nylon Tape For Aircraft Arrestor Barrier Specification  |
| 27 | TXD 13 (26628) Revision of: IS 514:1992  | Textiles Mercerized Cotton Fabrics for Covering Aircrafts and gliders Specification Fourth Revision  |
| 28 | TXD 13 (33228)                           | Textiles - Tubular nylon webbing for aerospace purposes - Specification first revision Amendment No 1  |
| 29 | TXD 13 (33229)                           | Textiles - Material nylon webbing for aircraft safety belts - Specification first revision Amendment No 1  |
| 30 | TXD 13 (33230)                           | Textiles Continuous filament glass yarn for aerospace and other purposes Specification second revision   |
| 31 | TXD 13 (33233)                           | Textiles - Cotton webbing for use in packing aero-engines - Specification first revision Amendment No 1  |

**Total Published Standards:30 Total Standards Under development:31**

### Aspect Wise Report

Product : 29  
Code of Practices : 0  
Methods of Test : 0  
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**

| SI. No. | IS No. & Year | Title  |
|---------|---------------|--|
| 1       | IS 1045:1966  | Light cotton fabric for covering surfaces of air-craft                         |
| 2       | IS 2198:1971  | Flax webbing for aeronautical purposes   |
| 3       | IS 2651:1964  | Cotton webbing dyed for aircraft safety belts and harnesses                    |
| 4       | IS 2965:1987  | Specification for breaking cord for cotton parachutes First Revision           |
| 5       | IS 2970:1987  | Specification for cotton fabrics for supply dropping parachutes First Revision |
| 6       | IS 2971:1964  | Cotton fabric for target sleeves   |
| 7       | IS 3243:1965  | Nylon fabric for man - dropping parachutes                                     |
| 8       | IS 3244:1965  | Specification for cotton webbing statichute                                    |
| 9       | IS 3254:1965  | Silk Sewing Thread For Parachutes  |
| 10      | IS 4437:1973  | Braided Nylon Cords For Personnel Parachutes                                   |
| 11      | IS 5010:1969  | Nylon fabric for heavy supply-dropping parachutes                              |
| 12      | IS 5304:1969  | Nylon fabric for sea-mine parachutes   |
| 13      | IS 5716:1970  | Cotton Tapes For Personnel Parachutes  |
| 14      | IS 596:1962   | Mercerized Cotton Fabric For Gliders revised                                   |
| 15      | IS 598:1962   | Mercerized cotton fabric Grade 2 for aircraft revised                          |

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

| SI. No. | IS No. & Year   | Title   |
|---------|---|---|
| 1       | IS 10476:1983   | Specification for woven roving glass fabric for polyester - glass laminates for aerospace purposes    |
| 2       | IS 11326:1985<br>Reaffirmed but not taken up for revision | Specification for nylon fabrics for coating with natural or synthetic elastomers                      |
| 3       | IS 11916:2001   | Textiles Continuous filament glass yarn for aerospace and other purposes Specification first revision |
| 4       | IS 1376:1998  | Textiles Cotton sewing threads for aerospace purposes Specification third revision                    |
| 5       | IS 1402:2024  | Textiles Braided Cotton Cord for Aerospace Purposes Specification Third Revision                      |
| 6       | IS 14564:1998   | Textiles - Cotton tapes for personnel parachutes - Specification                                      |
| 7       | IS 19208:2025   | Textiles Nylon Tape For Aircraft Arrestor Barrier Specification                                       |
|         |   | Textiles - Linen Flax Sewing Thread for Aerospace Purposes - Specification Third Revision             |

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|----|---|--|
| 8  | IS 2196:2024  |  |
| 9  | IS 2197:2000  | Aerospace textiles Braided Plaited linen flax lacing cord Specification second revision  |
| 10 | IS 3255:2024  | Textiles Scoured or Dyed Cotton Tapes for Aerospace Purposes Specification Second Revision   |
| 11 | IS 3449:2024  | Textiles Cotton Webbing for Parachutes Specification Third Revision  |
| 12 | IS 3846:1984  | Specification for rot-proofed cotton tapes for aerospace purposes first revision   |
| 13 | IS 4227:2024  | Textiles Braided Nylon Cords for Aerospace Purposes Specification third revision   |
| 14 | IS 4228:2023  | Textiles-Nylon tapes for aerospace purposes-Specification  |
| 15 | IS 4229:2024  | Textiles Nylon Sewing Threads for Aerospace Purposes Specification Third revision  |
| 16 | IS 4719:1984<br>Reaffirmed but not taken up<br>for revision | Specification for wire-woven rayon fabric for aerospace purposes second revision   |
| 17 | IS 4726:2025  | Textiles Light Weight Nylon Fabrics for Parachutes Specification Second Revision   |
| 18 | IS 4727:2020  | Textiles Nylon webbing for aeronautical purposes Specification first revision  |
| 19 | IS 514:2025   | Textiles Mercerized Cotton Fabrics for Covering Aircrafts and gliders Specification Fourth Revision  |
| 20 | IS 5746 (Part 2):2025                                       | Textiles Woven Glass Fibres Fabrics for Plastic Laminates for Aerospace Purposes Specification Part 2 Desized Fabrics Third Revision                                       |
| 21 | IS 5746 (Part 3):2025                                       | Textiles Woven Glass Fibres Fabrics for Plastic Laminates for Aerospace Purposes Specification Part 3 Finished Fabrics for Use with Polyester Resin Systems Third Revision |
| 22 | IS 5746 (Part 1):2025                                       | Textiles Woven Glass Fibres Fabrics for Plastic Laminates for Aerospace Purposes Specification Part 1 Loom-State Fabrics Third Revision                                    |
| 23 | IS 6349:2024  | Textiles - Tubular Nylon Tapes for Aerospace Applications - Specification Second Revision  |
| 24 | IS 6674:2021<br>ISO 12567-2: 2005                           | Textiles - Cotton webbing for use in packing aero-engines - Specification first revision   |
| 25 | IS 6879:2021  | Textiles - Fabric for target banner radar responsive - Specification first revision  |
| 26 | IS 6900:2021<br>IEC TR 63227 : 2020                         | Textiles - Proofed nylon leno fabric - Specification first revision  |
| 27 | IS 714:1992   | Textiles Cotton reinforcing tapes for aerospace purposes Specification third revision  |
| 28 | IS 8947:2021<br>IEC TS 63019: 2019                          | Textiles - Material nylon webbing for aircraft safety belts - Specification first revision   |
| 29 | IS 9267:2021  | Textiles - Tubular nylon webbing for aerospace purposes - Specification first revision   |