

# Analyses

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## ANALYSIS

1. Linear Density
2. Fibre Diameter
3. Fibre Birefringence
4. Breaking Strength and Elongation of Fibres
5. Breaking Tenacity of Flat Bundles
6. Length and Length Distribution of Fibres
7. Cotton Fibre Maturity
8. Number of Filaments
9. Coatings, Preparation
10. Fibre Melting Point
11. Fibre Composition – 3 Components
12. Cotton Polymerisation Degree
13. Determination of Humidity
14. Fibre Damage – Chemical
15. SEM or OM Image or FTIR Spectrum – 1 Image
16. SEM analysis (price per hour)
17. FTIR analysis (price per hour)
18. Photographing and Digital Photograph Processing (price per hour)

## STANDARD

- SIST EN ISO 1973
- SIST EN ISO 137
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- SIST ISO 5079
- SIST ISO 3060
- SIST ISO 6989
- ASTM D 1442-06
- DIN 53 840 Teil 1
- DIN 54278-1
- SIST EN ISO 3146 (metoda B)
- SIST EN ISO 1833
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- SIST ISO 6741
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## YARN AND THREAD

### ANALYSIS

1. Linear Density of Yarn
2. Breaking Strength and Elongation
3. Direction of Twists in Yarn and in Similar Products
4. Twists, Rotations
5. Twists in Yarns, Removed from Fabric
6. Number of Filaments
7. Number of Capillary Breakages
8. Extraction (% fat deposit)
9. Viscoelastic Properties of Elastomeric Yarn
10. Uniformity of Strands, Yarns and Threads
11. Number of Bends until Breaking Point
12. Elastic Characteristics of Yarn
13. Shrinkage during Filament Boiling

### STANDARD

- SIST EN ISO 2060
- SIST ISO 2062
- SIST ISO 2
- SIST EN ISO 2061
- SIST ISO 7211-4
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- DIN 54278-1
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- SIST DIN 53817-1
- SIST DIN 53817-2
- SIST EN ISO 9073-7
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- ASTM D 2259

## FLAT TEXTILES

### ANALYSIS

1. Design of Woven Fabrics and Knitwear
2. Width and Length of Flat Textiles
3. Mass per Unit Area of Small Samples
4. Determination of number of threads per unit length
5. Linear Density of Yarn Removed from Fabric

### STANDARD

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- SIST EN 12127
- SIST EN 1049-2
- ISO 7211-5

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| 6. Compressibility   | –                   |
| 7. Thickness of Textiles   | SIST EN ISO 5084    |
| 8. Breaking Strength and Elongation  | SIST EN ISO 13934-1 |
| 9. Further Tear Force (Elmendorf)  | ISO 13937-1         |
| 10. Further Tear Force<br>(sample in the form of trousers)                           | ISO 13937-2         |
| 11. Further Tear Force<br>(sample in the form of tongue)                             | ISO 13937-4         |
| 12. Bursting Strength  | ISO 13938-2         |
| 13. Breakthrough Strength  | –                   |
| 14. Abrasion Resistance - Thread Tear  | ISO 12947-2         |
| 15. Abrasion Resistance – Loss of Mass   | ISO 12947-3         |
| 16. Abrasion Resistance – Appearance Change  | ISO 12947-4         |
| 17. Surface Fuzzing and Pilling Resistance   | ISO 12945-1         |
| 18. Surface Fuzzing and Pilling Resistance   | ISO 12945-2         |
| 19. Resistance to Surface Wetting (SPRAY TEST)                                       | SIST EN ISO 24920   |
| 20. Water Capacity (Capillarity)   | DIN 53 924          |
| 21. Determination of Water Penetration – Hydrostatic Pressure Test                   | SIST EN 20811:1996  |
| 22. Determination of Pore Size   | –                   |
| 23. Water Vapour Permeability  | ASTM E96/E96M       |
| 24. Air Permeability   | SIST EN ISO 9237    |
| 25. Oil Repellency   | ISO 14419           |
| 26. Crease Recovery Angle of Horizontal Fold Sample                                  | ISO 2313            |
| 27. Dimensional Changes in Washing   | SIST EN ISO 25077   |
| 28. Colour Determination   | SIST EN ISO 105-J01 |
| 29. Domestic Washing and Drying Procedures   | SIST EN ISO 6330    |
| 30. Colour Fastness – Washing  | ISO 105-C06         |
| 31. Colour Fastness – Perspiration   | SIST EN ISO 105-E04 |
| 32. Colour Fastness – Dry/Wet Rubbing  | SIST EN ISO 105-X12 |
| 33. Colour Fastness – Artificial Light   | ISO 105-B02         |
| 34. Colour Fastness – Artificial Light + Rain Simulation                             | ISO 105-B04         |
| 35. Colour Fastness – Sea Water  | ISO 105-E02         |
| 36. Colour Fastness – Water  | ISO 105-E01         |
| 37. Colour Fastness – Water Droplets   | ISO 105-E07         |
| 38. Colour Fastness – Dry Cleaning   | ISO 105-D01         |
| 39. Colour Fastness – Ironing  | ISO 105-X11         |
| 40. Colour Fastness – Organic Solvents   | ISO 105-D02         |
| 41. Domestic Laundering Procedures for Textile Fabrics prior to Flammability Testing | SIST EN ISO 12138   |
| 42. Burning Behaviour of Curtains  | SIST EN 1101        |
|  | SIST EN 1102        |
| 43. Burning Behaviour of Textiles  | SIST EN ISO 6940    |
|  | SIST EN ISO 6941    |
| 44. Evaluation of Electrostatic Properties   | –                   |
| 45. Burning Behaviour – Protective Clothing  | SIST EN ISO 15025   |
| 46. pH of Water Extract  | SIST EN ISO 3071    |
| 47. Determination of Dichloromethane-soluble Matter                                  | SIST ISO 3074       |
| 48. Formaldehyde Content   | ISO 14184-1         |
| 49. Seam Slippage  | SIST EN ISO 13936-1 |
| 50. Heat Conductivity – Thermal Conductivity   | DIN 52 612 (Teil 1) |
| 51. Folding  | DIN 53 359          |
| 52. Gloss Measurements   | –                   |
| 53. UV Protection  | AS/NZS 4399         |

## TOYS

| <b>ANALYSIS</b>                    | <b>STANDARD</b> |
|------------------------------------|-----------------|
| 1. Simulation of the Oesophagus    | EN 71-1/8.2     |
| 2. Resistance to Toy-part Rotation | EN 71-1/8.3     |
| 3. Tensile Test of Base Material   | EN 71-1/8.4.2.1 |
| 4. Seam Strength                   | EN 71-1/8.4.2.2 |
| 5. Fall Resistance                 | EN 71-1/8.5     |
| 6. Shock Resistance                | EN 71-1/8.7     |
| 7. Pressure Resistance             | EN 71-1/8.8     |
| 8. Wettability Test                | EN 71-1/8.9     |
| 9. Roll-over Test                  | EN 71-1/8.6     |
| 10. Flammability                   | EN 71-2         |
| 11. Tearing-resistance Test        | EN 14350-1      |