



Curing Hessian Cloth as per IS: 2873 (1991)

TECHNICAL DATASHEET

SANDHYAFLEX Hessian Cloth is a high-quality natural fibre fabric designed for packaging, wrapping, protection, curing, agricultural, construction, and industrial applications. Manufactured from high quality jute yarns using advanced weaving processes, these fabrics are engineered to provide excellent strength, breathability, flexibility and durability under diverse operating conditions.

Designed to serve as an economical and environmentally friendly packaging and protective material, Sandhyaflex Hessian Cloth offers reliable performance while ensuring ease of handling, storage, transportation and application. The product is widely used in concrete curing, wrapping of industrial goods, agricultural packaging, erosion control systems, insulation protection and various industrial applications where strength, moisture retention and biodegradability are essential.

SANDHYA ENTERPRISES / SANDHYAFLEX INDIA PVT LTD has established itself as a trusted supplier of quality industrial and infrastructure products in India. With carefully selected natural jute fibres and controlled weaving processes, Sandhyaflex Hessian Cloth is designed to deliver consistent performance, excellent dimensional stability and durability under demanding service conditions.

Overcoming Challenges, Delivering Excellence:

Packaging, curing, and protective applications often face challenges such as material tearing, inadequate moisture retention, poor breathability, environmental degradation and difficulties in handling. Conventional synthetic materials may also create environmental concerns and disposal challenges.

To address these challenges, SANDHYAFLEX Hessian Cloth is manufactured using high-quality jute fibres that provide excellent tensile strength, moisture absorption capability, flexibility and environmental sustainability. The cloth ensures dependable performance while offering superior breathability and ease of application across various industries.

By delivering reliable protection, effective moisture retention and long service life, SANDHYAFLEX Hessian Cloth has become a preferred choice for construction contractors, infrastructure developers, agricultural users, packaging industries, and industrial customers.

Key Features:

- Manufactured from quality natural jute fibres.
- Excellent tensile strength and tear resistance.
- High moisture absorption and retention capability.
- Breathable and permeable structure.
- Flexible and easy to handle.
- Suitable for concrete curing applications.
- Good resistance to wear during normal handling.
- Lightweight and convenient transportation.
- Excellent wrapping and protective properties.
- Available in multiple widths, lengths, and GSM specifications.
- Suitable for agricultural, industrial, and construction applications.
- Long service life under normal operating conditions.

Applications:

- **Concrete Curing:** Maintains moisture for proper curing of concrete structures.
- **Road Construction:** Used for curing pavements, bridges, culverts, and infrastructure projects.
- **Bridge Construction:** Protects concrete surfaces and assists in moisture retention.
- **Packaging Industry:** Used for wrapping machinery, equipment, and industrial products.
- **Agricultural Applications:** Suitable for crop protection, nursery applications, and storage.
- **Erosion Control:** Used in soil stabilization and environmental protection projects.
- **Geotechnical Applications:** Utilized in temporary protection and ground covering works.
- **Industrial Protection:** Protects fabricated products during transportation and storage.
- **Warehousing:** Used for covering and protecting stored materials.
- **Horticulture and Landscaping:** Suitable for plant protection and moisture retention.
- **Export Packaging:** Widely used for eco-friendly packaging solutions.
- **General Industrial Applications:** Used wherever durable natural-fibre fabric is required.

History of Hessian Cloth:

- **1800s** – Jute fabrics gained popularity as durable natural packaging materials.
- **Late 1800s** – Hessian cloth became widely used in agriculture, transportation, and industrial packaging.
- **Early 1900s** – Adoption increased in construction and infrastructure projects.
- **1950s** – Widespread use in concrete curing and protective wrapping applications.
- **1970s** – Improved weaving technologies enhanced fabric consistency and strength.
- **1980s** – Growing demand from agricultural and industrial sectors.
- **1990s** – Increased focus on environmentally friendly and biodegradable materials.
- **2000s** – Expanded use in geotechnical and erosion-control applications.
- **2010s** – Sustainable construction practices increased demand for natural jute products.
- **2020s** – Modern Hessian Cloth continues to provide an economical, eco-friendly, and versatile solution for packaging, curing, agricultural, and industrial applications worldwide.

Colours and Their Applications:

For Hessian Cloth, colours are primarily used for product identification, application differentiation, packaging requirements, construction specifications, and customer-specific preferences. The strength, moisture retention capability, breathability, and durability of the cloth are governed by the quality of jute fibres and weaving construction rather than colour.

Colour	Typical Application
Natural Brown	Standard concrete curing, packaging, wrapping, and agricultural applications
Green	Horticulture, landscaping, nursery protection, and environmental projects
Black	Industrial protection, covering, and specialized construction applications
White	Decorative, exhibition, and specialty packaging applications
Blue	Project identification and custom industrial requirements
Red	Product identification and project-specific coding requirements
Custom Colours	Available as per customer specifications and application requirements

Materials:

The Sandhyaflex Hessian Cloth shall be manufactured using high-quality natural jute fibres designed to provide superior tensile strength, moisture retention, breathability, flexibility, and long-term service reliability.

The fabric shall consist of quality jute yarns woven using controlled manufacturing processes to achieve consistent weave construction, dimensional stability, and dependable mechanical performance. Suitable finishing treatments may be applied as required to enhance handling characteristics and application performance.

RAW MATERIALS OF HESSIAN CLOTH BY SANDHYAFLEX				
S. No.	Raw Material	Image	Typical Grade / Example	Function / Purpose
1	Jute Fibre (Raw Material)		<ul style="list-style-type: none"> 100% Natural Jute Fibre Medium to Long Staple Clean, Bright & Strong Fibre 	<ul style="list-style-type: none"> Provides strength & durability Excellent moisture absorption Natural & biodegradable Eco-friendly material
2	Jute Yarn (Warp & Weft)		<ul style="list-style-type: none"> Single / Multi Ply Uniform Twist Yarn 20s to 40s (As per Requirement) 	<ul style="list-style-type: none"> Ensures strong and uniform weave Improves fabric strength Provides dimensional stability
3	Hessian Fabric (Woven Cloth)		<ul style="list-style-type: none"> Plain Woven Hessian 200 GSM to 500 GSM Width: 0.9 m to 1.8 m (Custom) Roll Length: 25 m to 100 m (Custom) 	<ul style="list-style-type: none"> Strong, breathable & flexible High moisture retention Suitable for multi-purpose use Economical & reusable
4	Finishing Treatment (If Applicable)		<ul style="list-style-type: none"> Anti-Fungal Treatment Anti-Termite Treatment Water Repellent Coating (Optional) 	<ul style="list-style-type: none"> Enhances durability Prevents fungal & insect attack Improves performance in harsh environments
5	Dye / Colour (If Applicable)		<ul style="list-style-type: none"> Natural / Vegetable Dyes Azo-Free Dyes (If Required) Colour as per Requirement 	<ul style="list-style-type: none"> Provides colour identification Used for packaging & project coding Custom colours available
6	Stitching Thread (If Applicable)		<ul style="list-style-type: none"> Jute Thread / Cotton Thread High Strength As per Stitching Requirement 	<ul style="list-style-type: none"> Ensures secure stitching Improves fabric strength Prevents fraying
7	Packing Material		<ul style="list-style-type: none"> Jute Strapping / PP Strapping HDPE Bag / Wrapping Sheet As per Packing Requirement 	<ul style="list-style-type: none"> Protects fabric during storage Ensures safe transportation Prevents damage & contamination
8	Labelling & Tag		<ul style="list-style-type: none"> Product Label Batch No. / GSM / Size Branding as per Requirement 	<ul style="list-style-type: none"> Product identification Traceability & quality control Customer information

MANUFACTURING PROCESS																
	→		→		→		→		→		→		→		→	
JUTE FIBRE SELECTION		YARN PREPARATION		WEAVING		FABRIC INSPECTION		FINISHING TREATMENT		CUTTING & STITCHING		ROLLING & PACKING		QUALITY INSPECTION		FINISHED HESSIAN CLOTH
HIGH QUALITY MATERIALS		DURABLE PERFORMANCE		ECO-FRIENDLY & BIODEGRADABLE		RELIABLE & CONSISTENT QUALITY		LONG SERVICE LIFE								

The cloth shall be free from defects such as tears, broken yarns, excessive knots, weaving irregularities, foreign inclusions, or other imperfections that may adversely affect performance and durability.

Physical and Mechanical Properties – Sandhyaflex Hessian Cloth:

S. No.	Property / Test	Requirement
1	Product Type	Hessian Cloth
2	Material Composition	Natural Jute Fibre
3	Colour	Natural Brown / Green / Black / Custom Colours
4	Weave Type	Plain Woven Hessian Fabric

5	Surface Finish	Uniform Woven Finish
6	Flexibility	Excellent
7	Tensile Strength	Good Mechanical Strength
8	Tear Resistance	Good
9	Moisture Absorption	High
10	Moisture Retention Capacity	Excellent
11	Breathability	Excellent
12	Abrasion Resistance	Good
13	Impact Resistance	Suitable for Normal Handling
14	Weather Resistance	Good
15	UV Resistance	Moderate
16	Moisture Resistance	Excellent
17	Biodegradability	Excellent
18	Environmental Compatibility	Eco-Friendly
19	Dimensional Stability	Good
20	Reusability	Good
21	Concrete Curing Performance	Excellent
22	Packaging Performance	Excellent
23	Typical Applications	Concrete Curing, Packaging, Agriculture, Landscaping, Industrial Protection
24	Roll Width	Standard and Custom Widths Available
25	Roll Length	Standard and Custom Lengths Available
26	Maintenance Requirement	Low
27	Service Life	Long-Lasting Under Normal Conditions
28	Country of Origin	Made in India

Usage Tips:

- Select the appropriate GSM, width, and roll size based on the intended application, moisture retention requirements, handling conditions, and project specifications.
- Ensure the Hessian Cloth is suitable for the intended application such as concrete curing, packaging, wrapping, agricultural protection, or industrial covering.
- Verify that the cloth dimensions and specifications meet project requirements before installation or use.
- Inspect the cloth before use for tears, cuts, weaving defects, contamination, or damage that may affect performance.
- For concrete curing applications, thoroughly soak the cloth with clean water before placing it over the concrete surface.
- Ensure complete and uniform coverage of the surface to achieve effective moisture retention during curing operations.

- Secure the cloth properly in windy conditions to prevent displacement and exposure of the protected surface.
- Avoid dragging the cloth over sharp edges, rough surfaces, or abrasive materials that may cause tearing or damage.
- Store rolls in a dry and well-ventilated area before use to maintain product quality and handling characteristics.
- Follow applicable construction practices, curing procedures, packaging guidelines, and safety requirements during use.

Maintenance and Care:

Maintaining Sandhyaflex Hessian Cloth ensures reliable performance, extended usability, and effective moisture retention.

- **Regular Inspection:** Check for tears, excessive wear, broken fibres, contamination, or deterioration before reuse.
- **Keep Clean:** Remove dirt, cement residues, dust, mud, and foreign materials after use.
- **Proper Drying:** Allow the cloth to dry completely before storage to prevent mould growth and fibre deterioration.
- **Avoid Mechanical Damage:** Prevent exposure to sharp objects, heavy loads, excessive pulling, or rough handling.
- **Monitor Wear Levels:** Replace cloth showing excessive tearing, fibre breakdown, or significant loss of strength.
- **Protect Against Chemicals:** Avoid prolonged exposure to aggressive chemicals, oils, acids, solvents, or contaminants that may damage natural fibres.
- **Environmental Care:** Store in a cool, dry, and covered environment away from excessive moisture and direct weather exposure.
- **Timely Replacement:** Replace damaged or excessively worn cloth to maintain effective curing, packaging, or protection performance.

Applications by Countries:

India

- Widely used for concrete curing in bridges, highways, flyovers, buildings, and infrastructure projects.
- Commonly used for packaging, agricultural applications, and industrial protection.

- Strong demand driven by construction growth and infrastructure development.

China

- Extensive use in construction curing, industrial packaging, and agricultural applications.
- Widely adopted in manufacturing, transportation, and infrastructure sectors.
- Strong demand due to large-scale construction and industrial activities.

United States

- Used in concrete curing, erosion control, landscaping, packaging, and environmental protection projects.
- Commonly utilized in construction and industrial applications requiring biodegradable materials.
- Growing preference for sustainable and eco-friendly products.

Europe

- Widely used in sustainable construction, agriculture, horticulture, and packaging industries.
- Strong emphasis on biodegradable and environmentally responsible materials.
- Preferred for eco-friendly infrastructure and landscaping projects.

Middle East

- Used extensively for concrete curing in large-scale infrastructure, highways, bridges, and commercial developments.
- Suitable for moisture retention under hot climatic conditions.
- High demand from construction and transportation sectors.

Africa

- Widely used in infrastructure development, agricultural applications, packaging, and construction curing.
- Increasing adoption due to growing public infrastructure and farming projects.
- Preferred for affordability, availability, and ease of use.

Southeast Asia

- Commonly used in construction curing, agriculture, plantations, horticulture, and industrial packaging.
- Strong demand due to rapid urbanization and expanding infrastructure activities.
- Suitable for tropical climates and high-humidity environments.

Australia

- Used in construction projects, landscaping, erosion control, agriculture, and industrial packaging.
- Preferred for environmentally sustainable applications and infrastructure projects.
- Strong demand from construction, mining, and agricultural industries.

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