

IS 14715 (Part 2): 2016 Jute Geotextiles Part 2 Control of Bank Erosion in Rivers and Waterways — Specification

Woven jute geotextiles (JGT), specifically designed to control bank erosion in rivers and waterways. These geotextiles serve as a sustainable and eco-friendly solution, providing essential filtration and drainage while stabilizing soil to prevent erosion. JGT is increasingly preferred over traditional erosion control methods due to its biodegradable nature and effectiveness in various environmental conditions.

Quality parameters for woven jute geotextiles, which include adequate tensile strength, puncture resistance, and the ability to retain fines. Tensile strength is crucial for ensuring that the geotextiles can withstand hydraulic loads and installation stresses, while puncture resistance is vital for protecting the fabric from damage during installation and under external pressures. Additionally, the ability to retain fines ensures that the geotextiles effectively prevent soil migration, maintaining the integrity of the bank structure.

The Indian Standard IS 14715 (Part 2) addresses these quality parameters comprehensively. It establishes specific requirements for JGT, mandating a minimum tensile strength of 20 kN/m and a puncture resistance of at least 0.400 kN. The standard also outlines testing methods and tolerances for these parameters, ensuring that manufacturers produce geotextiles that meet or exceed these specifications. By providing clear guidelines on the necessary characteristics of JGT, the standard helps ensure that the product performs reliably in various environmental conditions, thus meeting consumer expectations for durability and effectiveness in erosion control.

Woven jute geotextiles represent a vital tool for managing bank erosion, with quality parameters defined by consumer needs and reinforced by the rigorous requirements set forth in IS 14715 (Part 2), ensuring both performance and sustainability in erosion management practices. Understanding the significance of Jute Geotextiles to control bank erosion in rivers and waterways, the Government of India has issued a Quality Control Order that mandates BIS certification for these Jute Geotextiles in accordance with IS 14715 Part -2, effective 1st January 2024.