

Jute

Biodegradable Erosion Control



Introduction

Jute is one of the strongest natural fibres. The long staple fibre has high tensile strength and low extensibility. The biodegradable features of jute are becoming increasingly important within the agricultural and landscaping sectors, used for soil erosion control, seed protection, weed control and many other landscaping uses, helping to encourage the land to become more fertile.

Jutemat

Jutemat is a dense, biodegradable, jute fibre erosion control blanket. It promotes vegetation growth and stability on steep slopes and protects areas prone to erosion. It allows water filtration whilst protecting precious topsoil and seed.



Jutemat steep slope erosion protection

Jutemat T.M. (Thick Mat) is a heavy grade product, used to suppress weeds, and promote growth of planted out vegetation. Its densely matted construction reduces soil sunlight exposure and available pores for weeds to penetrate, limiting weed growth and propagation.

Jutemat F.M. (Fine Mat) is a lighter grade product used to retain topsoil and establish seed. Fine Mat is laid over the top of the seeded area, protecting top soil from water and wind erosion while promoting a moist micro-climate for seed germination.



Jutemat promotes vegetation growth

Both grades of **Jutemat** allow air and water to pass unimpeded through their construction, they enable the soil beneath to breathe, promoting the growth of desired plants while reducing evaporation and minimising watering requirements. Using **Jutemat** you can eliminate the need for mulching and reduce maintenance costs associated with plant establishment.

Jutemesh

Jutemesh is a course open mesh, constructed using a woven jute yarn, the ideal natural erosion control material where vegetation is the long term solution. Made from natural fibre, **Jutemesh** serves to conserve moisture, as well as hold seeds and soil securely into place. It has a large percentage open area which allows plant growth to develop between the woven strands.

Jutemesh is suitable for short term erosion protection to batters and open drains where light water flow is expected. It helps retain moisture, allowing water and light infiltration to encourage natural vegetation growth in the area. **Jutemesh** should be considered whenever ground surfaces need to be stabilised and protected from minor soil erosion, where it will provide a relatively inexpensive answer compared with other natural materials. Its simple installation keeps labour costs to a minimum and seeding can be done before or after the **Jutemesh** has been placed.



Jutemesh swale drain

Jutemesh is ideal for areas where natural revegetation is being encouraged, such as sand dunes. The open weave nature of **Jutemesh** helps trap native seeds and allows them to germinate while the product stabilises and protects the soil.

Jutemesh drapes onto the surface allowing it to follow the natural contours and will not lift due to windy conditions, flowing water or plant growth once correctly installed.



Jutemesh allowing vegetation growth

Jute Specifications

Jutemat (Fine Mat)	
Weight	250 - 310gsm
Thickness	3mm +/- 0.5mm
Longevity	6 - 18 months
Standard Size	1.83m x 30m

Jutemat (Thick Mat)	
Weight	560 - 680gsm
Thickness	6mm +/- 1mm
Longevity	6 - 18 months
Standard Size	1.83m x 25m

Jutemesh	
Weight	292gsm
Thickness	5mm (approximately)
Longevity	6 - 12 months
Standard Size	1.22m x 549m

Typical Applications for Jute are:



- Slope protection
- Swale drains
- Bridge abutments
- Dam, canal and river banks
- Landfill capping and tailings dam reclamations
- Light batter erosion problems
- Grass spillways and lagoon banks
- Mulch protection

IMPORTANT NOTICE

The information contained in this brochure is general in nature. In particular the content of this brochure does not take account of specific conditions that may be present at your site. Site conditions may alter the performance and longevity of the product and in extreme cases may make the product wholly unsuitable. Any data or specifications contained in this brochure are average values obtained in our laboratory. Actual dimensions and performance may vary. If your project requires accuracy to a certain specified tolerance level you must advise us before ordering the product from us. We can then advise whether the product will meet the required tolerances. Where provided, installation instructions cover installation of product in site conditions that are conducive to its use and optimum performance. If you have any doubts as to the installation instructions or their application to your site, please contact us for clarification before commencing installation. In all cases we recommend that advice be obtained from a qualified consulting engineer before proceeding with installation. © Copyright held by Geofabrics Australasia Pty Ltd. All rights are reserved and no part of this publication may be copied without prior permission.

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