

Rainier Fiber™



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Premium Wood Fiber Mulch

DESCRIPTION

Rainier Fiber™ is 100% virgin wood fiber mulch made from clean, fresh-cut, western softwood chips for use in hydraulic planting and erosion control. It is premium quality wood mulch manufactured under constant quality control checks. The fiber is consistent in size and texture for the most optimum performance.

When applied over the soil surface, the fibers tend to twist and lock with each other as they dry. This forms a protective mulch mat to aid in erosion control, hold seeds in place, and provide a micro-climate to aid seed germination. After the seedlings have grown to sufficient size they, along with the mulch, will protect the soil surface to greatly reduce erosion and soil loss. In the final stages the fibers decompose, adding organic matter to the soil.

The manufacturing starts with clean, western softwood chips in which the fibers are separated in a high pressure defibration process that includes high temperature 177°C (350°F) steam and rubbing action. The process reduces the chips to long, soft fibers. This combination of selected softwood chips and thermo-mechanical refining produces the finest wood fiber mulch for hydroseeding and erosion control. In addition, the extreme heat and use of clean wood chips assures a sterile fiber to aid germination and growth of seed, stolons, and sprigs.

Rainier Fiber™ is fast to load in hydroseeding equipment from easy to handle plastic bags. The fibers are sized for maximum loading in a tank, and they make a homogeneous slurry of water, seed and fertilizer. The fibers remain in suspension during agitation and pumping, and the slurry does not dewater when doing hose work.

The green color makes the mixed slurry visible during application, even at maximum pumping distances. This allows the operator to apply an even application of material over the soil surface. The colorant added to the fiber during manufacture is non-toxic to animals, aquatic organisms, fish, or wildlife and does not inhibit plant growth. Caution should be used when spraying near concrete or buildings to prevent overspray from temporarily staining these items.

PRODUCT FEATURES

- Made from fresh cut, clean, western softwood chips.
- Fiber stays in uniform suspension and blends with seed and fertilizer.
- High loading and goes into slurry quickly.
- Forms stable mulching mat and holds the seed in place.
- Provides favorable micro-climate for faster germination.
- Helps establish grasses for erosion control, as well as fine turf.
- Color assists in even application. Colorant is non-toxic to aquatic organisms, fish or animal life.
- Mulch has no growth inhibiting factors.
- High temperature 177°C (350°F) steam processing sterilizes the fiber and kills all seeds.
- No viable noxious or other weed and plant seeds in the mulch. All seeds are sterilized.
- Fibers decompose after plants have been established.

FOR MORE INFORMATION PLEASE CONTACT:

PINNACLE EROSION CONTROL SUPPLY

SPOKANE, WA 99206

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PRODUCT SPECIFICATIONS

Rainier Fiber™ is manufactured to specific fiber sizes in a heat-controlled environment to provide best job-site performance. Clean wood chips are softened by high temperature 177° C (350° F) steam, and the pressurized thermo-mechanical refining process produces long, soft fibers. The resulting fibers have physical features that tend to intertwine with each other forming a protective mulching mat. Rainier Fiber™ is totally free from lead paint, printing ink, varnish, petroleum products, seed germination inhibitors, and chlorine bleach.

Composition	Test Method	Notes	Tested Value
Thermo-Mechanical Refined Virgin Wood Fiber		(total weight basis)	100%
Physical Properties	Test Method	Notes	Tested Value
Moisture Content	ASTM D 2974 / CA-Test 226	(total weight basis)	8.0% +/- 3.0%
Organic Matter	ASTM D586 / AASHTO T-267	(oven dried weight basis)	99.7% +/- 0.2%
Ash Content	AASHTO T267 / TAPPI T-413	(oven dried weight basis)	0.3%
pH @ 3% Concentration	SW846 9045D		4.5 +/- 0.5
Water Holding Capacity	ASTM D 7367*	(minimum)	1,200%
Color	Observed		Green, Blue, No Dye
Fiber Length	ASTM D 7560	25%=10mm (3/8 inch)	
Sieve Retention	ASTM D 7560	50% retained on 25 mesh (710 um) sieve	
Performance Properties	Test Method	Notes	Tested Value
Functional Longevity	Observed**		3 Months
Erosion Control Technology Council HECP Classification			Short Term
Maximum Slope Application	Observed		4.0H : 1.0V
Cure Time	Observed		24 to 48 Hours
Environmental Properties	Test Method	Citation Method / Notes	Results
Ecotoxicity	EPA 2019.0	96-hr LC50 > 100%	Pass / NOEC
Acute Toxicity	EPA-821-R-02-012	96-hr LC50 > 100%	Pass / NOEC
Biodegradability	ASTM D 5338		Pass
Heavy Metals	EPA 6020A	ND	Pass
Solvents	EPA 6020A	ND	Pass
Boron Content	EPA 6020A	< 100 ppm	Pass
Elemental Impurity Limits	EPA 1668	> 0.003 ppm	Pass
USDA BioPreferred	ASTM D6866	BioBased Content	Pending
Recommended Rates	Pounds Per Acre	Kilogram Per Hectare	
4.0H : 1.0V	1,800 to 2,500	2,020 to 2,800	
4.0H : 1.0V & steeper, use heavier application			
Packaging	Dimensions	Quantity	Pallet Weight
50 Pound Bale	10"x19"x29" Bale / 48"x48"x102" Pallet	40 Bales Per Pallet	EST >2,100 lbs.

* Water Holding Capacity results are the average of two most recent tests. ** Functional Longevity is the estimated time period based upon environmental & jobsite factors. For specific testing information please contact Tony Kopp for consultation at 509-368-0700.

Rainier Fiber™ load rates are up to 25 bags per 3000 gallons of water or 50 lbs of mulch per 120 gallons of water. These rates may vary depending on the machine. Instructions are on each bag.

COVERAGE

Color is added to help the applicator maintain uniform coverage during application. The recommended minimum application is 1,800 pounds/acre (2,020 kg/ha) on flat to 4H:1V slopes. For steeper than 4H:1V slopes use a heavier application. The best results to hold seed and mulch in place on any of the above slopes are provided by Rainier Fiber™ Plus Tackifier.

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