



HydroStraw® All In 1 Guar Plus Formulation

Performance Specification

Description

HydroStraw® All In 1 addresses the biological, chemical, and physical requirements for stabilizing and restoring vegetation on disturbed soil sites, as well as controlling erosion during vegetation establishment. HydroStraw® All In 1 consists of heat and mechanically treated wheat straw fibers which are environmentally safe, biodegradable and produced from annually renewable materials combined with a non-toxic brown colorant as an application aid. The porous matrix of the wheat straw encourages water infiltration, enabling the new seedlings to easily pass thru the matrix. The combination of the wheat straw fibers together with our cross-linked high strength polymer binders provides effective erosion prevention and increased vegetation establishment.

Recommended Applications

- Micronized Natural Fertilizers
- Biological Inoculant Food System
- Soil Building Attributes To Rejuvenate The Soil
- Designed For Disturbed Sites
- (V.E.M.) Vegetation Establishment Mulch
- Erosion Prevention for Steep Slopes & Critical Sites
- Cross Linked Binders Improve Wet Strength



Technical Data

Physical Properties *	Test Method	Units	Tested Value
Mass/Unit Area	ASTM D65661	g/m2 (oz./yd2)	Pending Results
Thickness	ASTM 65251	mm (in.)	Pending Results
Ground Cover	ASTM 65671	%	Pending Results
Water Holding Capacity	ASTM D7367	%	Pending Results
Organic Matter	ASTM D586	%	Pending Results
pH	ASTM D2976	n/a	Pending Results
C:N Ratio	TMECC 04.01 & 04.0	n/a	Pending Results
Material Color	Observed	n/a	Brown
Weed Free	Purity Analysis ²	Viable Seed	0
Performance Properties*	Test Method	Units	Tested Value
Cure Time	Observed	hours	<24
Vegetation Establishment	ASTM D7322 ¹	%	Pending Results
Environmental Properties*	Test Method	Units	Tested Value
Functional Longevity ³	Observed	n/a	Up to 6 Months
Acute Toxicity	EPA 2021.0	Pass/Fail	Pending Results
EPA 503 Metals	EPA 503 Metals	Pass/Fail	Pending Results
Pathogen Reduction	TMECC 07.02-A & SN	Pass/Fail	Pending Results
Product Composition			Typical Value
Heat & Mechanically Treated (HMT™) - Wheat Straw ⁴			57.5% +/- 1.0%
Micronized Natural Fertilizers/ Soil Amendments			25.0% +/- 1.0%
Moisture			10.0% +/- 1.0%
Natural Jute Fibers			4.5% +/- 1.0%
Proprietary Crosslinked Polysaccharide Tackifiers			3.0% +/- 1.0%

* When uniformly applied at a rate of 5000 pounds per acre (5600 kilograms/hectare) under laboratory conditions. 1. ASTM test methods developed for Rolled Erosion Control products that have been modified to accommodate Hydraulic Erosion Control Products. 2. HMT™ Wheat straw sample is analyzed by an accredited ISTA seed laboratory. 3. Functional Longevity is the estimated time period, based upon field observations, that a material can be anticipated to provide erosion control and agronomic benefits as influenced by composition, as well as site specific conditions, including; but not limited to, temperature, moisture, light conditions, soils, biological activity, vegetative establishment and other environmental factors. 4. Heat and Mechanically Treated processing eliminates weed seeds and insects while providing a uniform fiber. For specific testing information please contact a HydroStraw technical service representative at 800-545-1755

Packaging Data

Properties	Units	Nominal Value
Bag Size	Inches	11.5 x 17 x 25
Bag Weight	kg (lb.)	22.7 (50)
Bags per Pallet		40
Full Truckload		22 Pallets, 880 Bales
Packaging		Moisture Resistant Packaging

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