



# HydroStraw® HE Cellulose Fiber Plus

High-Efficiency Hydraulic Mulch



Solutions for your Environment™

## Description

HydroStraw® HE Cellulose Fiber Plus is a biodegradable, High Efficiency Hydraulic Mulch (HM) composed of renewable Heat & Mechanically Treated™ (HMT™) wheat straw fibers, refined pulp fibers and wetting agents (including high-viscosity colloidal polysaccharides). The HM is free of weed seeds and pathogens, contains no plastic components or recycled paper/newsprint, and upon application forms an intimate bond with the soil surface to create a porous, absorbent and flexible erosion resistant blanket that allows for rapid germination and accelerated plant growth.

## Recommended Applications

- Erosion control and revegetation
- Alternative to Blown Straw (Dry-Applied)
- Rough graded slopes
- Enhancement of vegetation establishment

## Technical Data

Physical Properties	Test Method	Units	Tested Value
Specification for Hydraulically-Applied Wheat Straw	ASTM D8202	Compliant	Yes
Water Holding Capacity	ASTM D7367	%	≥ 900
ISTA Weed Free <sup>1</sup>	Purity Analysis	Pass/Fail	Pass
Material Color	Observed	n/a	Green

Performance Properties	Test Method	Units	Tested Value
Functional Longevity <sup>2</sup>	Observed	Months	≤ 3

Environmental Properties	Test Method	Units	Tested Value
Ecotoxicity <sup>3</sup>	EPA 2021.0	Non-toxic	Yes
Elemental Impurity Limits	ASTM D8082	Pass/Fail	Pass
Biodegradability	ASTM D5338	n/a	Yes
USDA Certified Biobased Content <sup>4</sup>	ASTM D6866	%	98



Product Composition	Typical Value
Heat & Mechanically Treated™ (HMT™) Wheat Straw	83%
Refined Pulp Fibers	15%
Wetting Agents - Including high-viscosity colloidal polysaccharides	2%

1. HMT™ Wheat Straw sample is analyzed by an accredited International Seed Testing Association (ISTA) laboratory. 2. 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. 3. 48-hr LC<sub>50</sub> refers to the percent concentration of a substance in water when 50% percent mortality of an organism is reached. 50% mortality of the tested species (*Daphnia magna*) could not be achieved when subjected to 100% effluent concentration proving the material to be acutely non-toxic. 4. The BioPreferred Program is a USDA-led initiative that aims to assist in the development and expansion of markets for biobased products.

## Packaging Data

Properties	Test Method	Units	Nominal Value
Bag Weight	Scale	kg (lb)	22.7 (50)
Bags per Pallet	Observed	#	40

UV and weather-resistant plastic bags. Pallets are weather-proof stretch wrapped with UV resistant pallet cover.

## Profile Products

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