

PREMIUM WOOD SHAVINGS & FINE FIBER BEDDING

Technical Product Specification & Packaging Data Sheet

1. PRODUCT IDENTIFICATION & OVERVIEW

This technical document details the material properties, packing specifications, and structural configuration of premium-grade, kiln-dried raw wood flakes, fine shavings, and organic biomass fiber substrate. The material is precision-screened to minimize airborne particulate dust, making it an excellent medium for professional equine bedding, poultry husbandry, small animal environments, and structural filtration applications.

Material Source Notice: Extracted exclusively from responsibly sourced, soft-structural timber. This sustainable organic fiber is dried down to optimal moisture content thresholds to prevent microbial colonization, mold activation, or enzymatic fermentation during long-term warehouse storage.

2. PACKAGING & PERSPECTIVE VERIFICATION

The product is compressed and securely sealed within a transparent, high-clarity clear low-density polyethylene (LDPE) flexible polymer film container. The twin-chamber structural vertical seal reinforces package structural stability and maintains dense volume integrity.

FRONT VIEW

Illustrates the symmetrical dual-pillar vertical compression chamber and cross-top mechanical heat seal.

RIGHT VIEW

Shows structural expansion depth under pressure and the dense packing density of the wood flakes.

REAR VIEW

Verifies continuous seal alignment along the center and base borders, ensuring airtight integrity.

LEFT VIEW

Confirms uniform density alignment and consistency of fiber size distribution throughout the pack.

3. PHYSICAL & TECHNICAL SPECIFICATIONS

Material Composition	100% Organic Kiln-Dried Softwood Shavings / Cellulose Fiber
Enclosure Type	High-Tensile Transparent LDPE Sealed Sachet (Twin Compartment Design)
Texture / Particle Matrix	Fine to Medium-Coarse Flakes, screened for dust elimination
Moisture Threshold	≤ 10% - 12% (Oven-Dry Basis to maximize absorption efficiency)
Chemical Profile	Zero Additives, chemical-free, untreated natural wood fibers

4. INDUSTRIAL & AGRICULTURAL APPLICATIONS

Due to its carefully regulated particle distribution and high liquid absorption coefficients, this fiber substrate provides superior utility across multiple standard sectors:

Application Domain	Primary Operational Utility	Key Technical Benefit
Animal Husbandry Bedding	Provides thermal insulation, cushioning, and waste absorption.	Ultra-low dust reduces respiratory issues in livestock.
Horticultural Substrate	Acts as an organic soil aerator, moisture retainer, or surface mulch.	Biochemical decomposition adds slow-release organic carbon.
Industrial Absorbent	Rapidly contains spills, oils, and non-hazardous fluid leaks.	High relative surface area per gram of dry wood material.

5. STORAGE, HANDLING & SAFETY PROTOCOLS

- **Fire Prevention Standards:** Store inside a well-ventilated warehouse zone completely isolated from open flames, electrical arcs, spark sources, or direct ignition hazards.
- **Moisture Mitigation:** Do not compromise the outer plastic film. Store off the ground on dry pallets to avoid bottom humidity transmission.
- **Environmental Disposal:** 100% biodegradable and exceptionally well-suited for subsequent commercial composting systems or eco-friendly waste management processes.