

Hemp Seed Oil Micro Capsule Powder



This product is derived from certified industrial hemp. It contains no CBD, no THC, and is compliant with all applicable food and agricultural regulations.

Price: ~~\$16.00~~ **\$14.50**

What is Hemp Seed Oil Micro Capsule Powder?

Hemp Seed Oil Micro Capsule Powder is created by encapsulating high-quality, cold-pressed hemp seed oil within a protective matrix. This advanced technology shields the polyunsaturated fatty acids (PUFAs), particularly the beneficial Omega-3 and Omega-6, from environmental factors like oxygen, light, and heat, which typically lead to degradation and rancidity in liquid oils. The result is a fine, free-flowing powder that maintains the authentic nutritional profile of **Hemp Seed Oil** while offering superior stability, ease of handling, and versatile application in dry blends and aqueous systems. Unlock the full potential of **Hemp Seed Oil** in a highly stable and convenient dry format with our **Hemp Seed Oil Micro Capsule Powder**. Utilizing advanced micro-encapsulation technology, we

protect the delicate Omega fatty acids of premium hemp seed oil from oxidation, preserving their nutritional integrity and extending shelf life. This innovative powder easily disperses in water, making it an ideal ingredient for a wide array of functional foods, beverages, and dietary supplements where the benefits of **Hemp Seed Oil** are desired without its liquid limitations.

Specifications

| Parameter | Details |
|----------------------|--|
| Core Material | Organic cold-pressed hemp seed oil (≥50% oil load) |
| Wall Material | Modified starch + arabic gum (non-GMO) |
| Omega-3:6 Ratio | 1:3 (balanced) |
| Gamma-Linolenic Acid | 1.5-3% |
| Vitamin E | ≥30mg/100g (mixed tocopherols) |
| Particle Size | 80-150µm (adjustable to 200µm) |
| Solubility | Instant in water (no clumping) |
| Moisture | ≤5% |
| Residual Solvents | None (GRAS-certified process) |
| Storage | 24 months at 25°C (in sealed packaging) |

Key Features

- **Enhanced Oxidative Stability:** Micro-encapsulation significantly protects the delicate Omega-3 and Omega-6 fatty acids from oxidation, ensuring potency and preventing rancidity.
- **Superior Bioavailability:** Delivers the essential fatty acids in a protected form that maintains their bioavailability for optimal absorption.
- **Water Dispersible & Soluble:** Easily disperses in aqueous systems, allowing for seamless integration into powdered beverages, mixes, and other water-based formulations without oily residue.

- **Neutral Flavor Profile:** The encapsulation process helps to mask the inherent "green" or "grassy" notes of liquid hemp seed oil, offering a more neutral taste profile in finished products.
- **Clean Label Potential:** Formulated with food-grade carriers, supporting clean label product development.
- **Extended Shelf Life:** Provides a significantly longer shelf life compared to liquid hemp seed oil, reducing waste and increasing product viability.
- **Versatile Application:** Transforms liquid oil into a convenient powder, broadening its use cases across diverse product categories.
- **Complete Omega Profile:** Delivers the balanced ratio of Omega-3 (ALA) and Omega-6 (LA, GLA) essential fatty acids found in hemp seed oil, along with other beneficial compounds.

Application

Our **Hemp Seed Oil Micro-Capsule Powder** is a highly sought-after ingredient for a broad range of B2B applications, offering stability and versatility where liquid oils are unsuitable:

- **Nutraceuticals & Dietary Supplements:**
 - Capsules, tablets, and softgels for Omega-3/6 supplementation.
 - Powdered drink mixes (e.g., protein shakes, meal replacements) requiring lipid inclusion.
 - Functional food blends and wellness mixes.
- **Functional Foods & Beverages:**
 - Fortified baked goods (breads, muffins) for Omega enrichment.
 - Energy bars, snack mixes, and breakfast cereals.
 - Powdered dairy and plant-based milk alternatives.
 - Instant beverage mixes (coffee, tea, juice blends) for a healthy fat boost.
- **Sports Nutrition:**
 - Pre- and post-workout mixes and recovery formulas for healthy fats.
 - Weight management and ketogenic diet products.
- **Pet Food & Animal Nutrition:**
 - As a stable source of essential fatty acids for pet supplements and functional animal feeds, promoting healthy skin and coat.

Why Choose Our Hemp Seed Oil Micro Capsule Powder for Your Business?

Partnering with us for your **Hemp Seed Oil Micro Capsule Powder** needs ensures you receive a cutting-edge, high-performance ingredient that addresses critical formulation challenges:

- **Advanced Stability Solution:** Overcome the inherent instability of liquid hemp seed oil, guaranteeing product integrity and preventing rancidity in your finished goods.
- **Enhanced Product Versatility:** Transform your formulations with a dry, water-dispersible oil, opening new possibilities in powdered and water-based products.
- **Neutralized Flavor & Odor:** Offer consumers the health benefits of hemp seed oil without its characteristic taste, improving product palatability and appeal.
- **Consistent Quality & Performance:** Our state-of-the-art micro-encapsulation process and rigorous quality control ensure a reliable and uniform product batch after batch.
- **Clean Label Opportunity:** Utilize a naturally derived and minimally processed ingredient to meet consumer demand for transparency.
- **Reliable B2B Supply:** We offer a robust and scalable supply chain, capable of fulfilling your volume requirements efficiently and consistently.
- **Dedicated Technical Support:** Our team provides comprehensive data sheets, Certificates of Analysis (CoAs), and expert guidance to support your R&D, formulation, and regulatory compliance.

FAQs

Q: What is the typical oil content in your Hemp Seed Oil Micro-Capsule Powder?

A: We can customize the oil content based on customer needs, typically offering concentrations such as 50%, 60%, or 70% oil by weight. Please specify your requirements when inquiring.

Q: How does micro-encapsulation improve the stability of hemp seed oil?

A: Micro-encapsulation creates a physical barrier around the oil droplets, protecting them from oxygen, light, and heat. This significantly slows down the oxidation process, extending the shelf life and preserving the quality of the delicate Omega fatty acids.

Q: Is the encapsulation material considered clean label?

A: Yes, our encapsulation materials are food-grade and commonly used in the food industry, supporting clean label declarations. Specific details on the carrier ingredients are provided on the product specification sheet.

Q: What is the shelf life and recommended storage for bulk quantities?

A: Our **Hemp Seed Oil Micro-Capsule Powder** typically has a shelf life of 24 months from the manufacturing date when stored in a cool, dry place, away from direct sunlight and moisture, in its original sealed packaging. Specific bulk storage recommendations will be detailed with your order documentation.

Q: Can this powder be used in hot beverages or products requiring heating?

A: The micro-encapsulation provides significant protection against heat. While it performs well in many heated applications (e.g., instant hot beverages, baked goods), stability can vary based on specific temperature, duration, and pH. We recommend testing in your specific product matrix.

Packing

Want to learn more about this product or have any questions?

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