

TECHNICAL DATA SHEET

Rice Protein 80%

Feed Grade Plant Protein Ingredient for Aquaculture and Animal Feed

Product Description

Rice Protein 80% is a feed grade plant protein ingredient produced from selected rice raw material. It is supplied as a fine light yellow to off-white powder and is designed for use in aquaculture feed, poultry feed, and other animal nutrition formulas. With high protein content, non-GMO origin, good digestibility, and a relatively mild flavor profile, rice protein can help formulators improve amino acid contribution, palatability, and nutritional density in compound feed. It is especially useful in aquafeed systems where ingredient stability, water quality, feed intake, and digestive comfort are important. The product can be used as a partial replacement or supplement to conventional protein sources, depending on formulation objectives, processing conditions, and local feed regulations.

1. Product Identification

Product Name	Rice Protein 80%
Raw Material	Rice
Grade	Feed Grade
GMO Status	Non-GMO
Mesh Size	300 / 500 / 600 Mesh
HS CODE	350400
HS Code	35040090.00
Appearance	Light yellow to off-white fine powder
Primary Function	Plant protein ingredient for aquaculture and animal feed
Shelf Life	24 months under recommended storage conditions

UNIT:MT	COVERED THE PALLETS	WITHOUT PALLETS
20'FCL	10	12
40'FCL	20	24



2. Typical Specification

Items	Standard
Protein Content (N x 6.25, Dry Basis), g/100g	≥ 80.0
Fat, g/100g	≤ 7.0
Moisture, g/100g	≤ 6.0
Ash, g/100g	≤ 5.0
Total Carbohydrate, g/100g	≤ 18.0
Melamine, mg/kg	ND
pH 10%	6.5 - 7.5
Bulk Density (Non-vibration), g/cm ³	0.30 - 0.45
Lead, mg/kg	≤ 0.30
Arsenic, mg/kg	≤ 0.25
Mercury, mg/kg	≤ 0.20
Cadmium, mg/kg	≤ 0.30
TPC, cfu/g	≤ 10000
Yeast & Moulds, cfu/g	≤ 100
Coliforms, cfu/g	≤ 100
E. coli, cfu/g	10
Salmonella, /375 g	ND
Staphylococcus aureus, cfu/g	10
Gluten, mg/kg	20

3. Applications and Benefits

Plant protein source for aquaculture feed

Rice Protein 80% is suitable for fish and shrimp feed where high-quality plant protein, stable processing performance, and good digestibility are required. In aquaculture formulas, it can help reduce dependence on selected animal protein ingredients while maintaining a balanced nutrient profile. Its fine powder form supports uniform distribution in premixes, extruded feed, sinking pellets, and other aquatic feed systems. Rice protein is especially useful in formulas designed for stable feed intake, digestive comfort, and improved utilization of nutrients under intensive farming conditions. When used with fish meal, soybean meal, wheat gluten, amino acids, oils, minerals, and functional additives, it gives nutritionists more flexibility to balance cost, palatability, protein level, and water quality targets in finished feed.

Digestibility and feed utilization support

Rice protein is valued in feed applications because it provides a plant-based protein contribution with relatively good absorbability and a mild sensory profile. In young animals and aquatic species, feed ingredients must be easy to digest and compatible with sensitive digestive systems. Rice Protein 80%

can support the formulation of diets focused on efficient nutrient intake, steady growth, and reduced nutritional stress. In fish feed, better digestibility can contribute to cleaner excretion patterns and may help maintain water quality when combined with proper feeding management. The product should be formulated together with suitable amino acid supplementation, energy sources, and mineral balance to meet the nutritional requirements of each target species and production stage.

Application in poultry and general animal feed

Rice Protein 80% can also be used in poultry feed and other animal feed formulas as a supplementary plant protein source. It may help improve the protein density of compound feed and provide an alternative ingredient when formulators need to adjust raw material sources. In poultry nutrition, it can be used in starter, grower, and layer feed programs according to nutritional requirements and cost targets. The product has good compatibility with cereal ingredients, vegetable protein meals, enzymes, organic acids, probiotics, vitamins, and mineral premixes. For best results, formulators should consider amino acid balance, energy level, palatability, anti-nutritional factors, and local feed regulations. Proper mixing and quality control are important to ensure consistent distribution in finished feed.

Formulation flexibility and processing suitability

The fine mesh size of Rice Protein 80% makes it convenient for use in premixes and complete feed manufacturing. It can be selected for aquafeed and animal feed systems that require uniform particle distribution, stable protein contribution, and good handling during production. In extruded aquafeed, attention should be paid to moisture, temperature, screw configuration, and binding systems to maintain pellet quality and nutrient consistency. Rice protein can be used together with starch sources, binders, oils, attractants, amino acids, and functional feed additives to support the desired texture, water stability, and feeding response. The product should be stored away from moisture and strong odors to preserve quality, flowability, and performance before use in feed production.

4. Packaging, Storage, and Shelf Life

Standard packaging: 20 kg or 25 kg net kraft paper bag with PE liner, or according to customer requirement.

Storage: Store in unopened original packaging in a cool, dry, clean, and well-ventilated warehouse. Avoid moisture, heat, direct sunlight, strong odors, pests, and contamination with incompatible materials. Recommended storage temperature is below 80°F (27°C).

Shelf life: 24 months from production date under recommended storage conditions in original unopened packaging.

5. Handling and Safety

Avoid inhalation of dust during handling. Use appropriate ventilation, dust mask, gloves, and eye protection where necessary. Wash hands after use and follow good industrial hygiene practices. The product is intended for feed use and should be handled according to local feed safety regulations and the customer's quality management system.