Hydrolyzed Wheat Protein (Feed Grade)

Soluble wheat-derived protein powder made from vital wheat gluten for animal-feed formulations, including milk replacers, starter feeds, pet food and aquafeed.

Also known as hydrolyzed wheat gluten | CAS No.: 70084-87-6 | Grade: Feed ingredient

Specifications and physical properties

Parameter	Reference specification
Mean molecular weight	3,600 Da
Solubility	180 g/L
Supply grade	Feed ingredient
Protein, as is	≥80.0%
Moisture	≤8.0%
Ash	≤1.2%
Total nitrogen	≤12.8%
Amino nitrogen	≤0.5%
pH (6% solution)	4.0-6.0
Fat	≤2.0%
Total carbohydrates, calculated	≤11.7%
Standard plate count	≤30,000 CFU/g
Coliforms	≤10 CFU/g
Yeast and mold	≤500 CFU/g
Escherichia coli	None detected
Salmonella	None detected
Color (2% in water)	Milky

These are product reference values, not results for a specific batch. The agreed purchase specification and the batch COA govern supply.

Applications

Milk replacers, young-animal feeds, pet foods, aquafeed and feed premixes. Assess mixing, recipe performance and the approved feed use for the intended market.

Packing and storage

Packing: 20-25 kg/bag with PE inner liner
Storage: Keep sealed in a cool, dry place, protected from moisture and direct sunlight.
Shelf life: 2 years in intact original packaging.

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Typical composition profiles

The following reported composition and distribution values are reference profiles for technical comparison, not guaranteed batch analyses. Request the selected grade specification and current lot COA.

Reported glutamine and free amino acids

Parameter	Value
Peptide-bound glutamine	30.0%
Free glutamine	1.2%
Free amino acids	<6.5%

Mineral profile

Mineral (mg/100 g)	Value
Calcium	33
Magnesium	35
Potassium	700
Sodium	680
Phosphorus	125
Iron	3
Chloride	300

Molecular weight distribution

Molecular weight (Da)	Area (%)
>10,000	18.9
5,000-10,000	9.6
3,000-5,000	5.3
2,000-3,000	3.0
1,000-2,000	7.4
500-1,000	13.6
196-500	35.9
<196	6.3

Amino acid profile

Amino acid (mg/g)	Value
Alanine	23.2
Arginine	28.2
Aspartic acid	25.1
Cysteine	16.9
Glutamic acid, including glutamine	291.1
Glycine	27.3
Histidine	15.8
Isoleucine	30.0
Leucine	56.9
Methionine	12.9
Lysine	14.6
Phenylalanine	41.4
Proline	94.6
Serine	49.4
Threonine	19.4
Tryptophan	7.0
Tyrosine	25.2
Valine	32.0

Composition bases follow the labels shown: minerals in mg/100 g, amino acids in mg/g, and molecular weight fractions in chromatographic area percent. Values must not be combined as a single mass-balance analysis.

Confirm suitability for the intended formulation and destination market. Obtain applicable safety and handling information separately; this TDS is not a safety data sheet.