

## High Protein Cottonseed Meal

### Ingredient Declaration

High Protein Cottonseed Meal – derived from cotton seeds which conform to the requirements of Australian Oilseeds Federation Cottonseed Standard Reference CSO9.

### Product Description

High Protein Cottonseed Meal is obtained from the solvent extraction and grinding of cotton seed (*Gossypium hirsutum*). The minimum quality standards shall conform to the Australian Oilseed Federation Standards (COT:M:313/93).

High Protein Cottonseed Meal will conform to FSAZ Food Standards Code and the relevant State Health Acts.

The Australian Inventory of Chemical Substances (AICS) CAS No. for cottonseed meal is 68424-10-2.

### Characteristics

A brown meal, free flowing with a clean, fresh chaff like odour. Typical bulk density of 520-560 g/l.

Fineness of Grind – Max 2% retained, 3mm screen (woven wire DIN3) and Max 10% retained, 2mm screen (woven wire, US10, DIN 2).

Standard Specifications (at Time of Manufacture)		
Analyses	Method	Specification
Crude Protein	AOCS Ba 4e-93	43.0% Min
Moisture	AOCS Ba 2a-38	12.0% Max
Crude Fibre	AOCS Ba 6-84	15.0% Max
Oil	AOCS Ba 3-38	0.5% Min
Typical amino acid profile	Unit	
Alanine	% of Cr. Protein	3.7
Arginine	% of Cr. Protein	11.7
Aspartic Acid	% of Cr. Protein	8.8
Cystine	% of Cr. Protein	2.5
Glutamic Acid	% of Cr. Protein	21.0
Glycine	% of Cr. Protein	3.4
Histidine	% of Cr. Protein	3.3
Leucine	% of Cr. Protein	5.1
Isoleucine	% of Cr. Protein	3.1
Lysine	% of Cr. Protein	4.5
Methionine	% of Cr. Protein	0.8
Phenylalanine	% of Cr. Protein	4.7
Proline	% of Cr. Protein	3.5
Serene	% of Cr. Protein	4.4
Threonine	% of Cr. Protein	3.5
Tryptophan	% of Cr. Protein	1.6
Tyrosine	% of Cr. Protein	2.4
Valine	% of Cr. Protein	3.8

Typical Analysis – as fed basis	
Metabolisable Energy-Poultry	10.9 MJ/kg
Metabolisable Energy-Cattle	12.0 MJ/kg
Digestible Energy-Swine	12.2 MJ/kg
Crude Fibre	11.0%
Acid Detergent Fibre	16.6%
Neutral Detergent Fibre	23.7%
Total Ash	6.8%
Calcium	0.21%
Total Phosphorus	1.26%
Magnesium	0.70%
Potassium	0.65%
Sulphur	1.60%
DCAD	295 meq/kg

### Shipping and Storage Conditions

The product is to be shipped in a covered tipper truck, with adequate protection from rain. Trucks / railcars used for the transportation must conform with Section 1 : AOF 2-4, Code of Practice for the Bulk Transportation of Vegetable Oilseeds, Meals and Hulls by Road and Rail. The product should be stored in clean, dry environment with protection from moisture, insects, birds and rodents.

### Packaging & Coding

Each load should be accompanied by a delivery note detailing product name, net weight, customer details, manufacturer's name and address. Product details will be included on a Certificate of Analysis or Conformance/Compliance when requested in the sales contract. A labeled retention sample shall be maintained for no less than two months.