DEHULLED
FULL FAT SOYBEAN MEAL

INNOVATORS IN ANIMAL NUTRITION

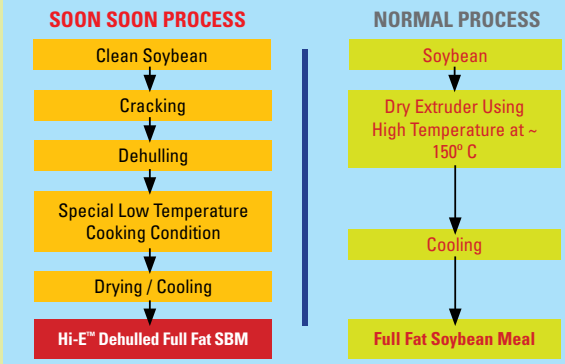
PRODUCT CODE: 1320

Product Introduction

Soon Soon HI-E™ Dehulled Full Fat SBM is produced by a high efficiency processing method which lowers anti-nutritional factors such as trypsin inhibitor and at the same time increases nutrient availability. It is a dehulled product with fibre content not more than 3% and oil content of 20% minimum. Its available ME in poultry had been proven to be at least 400kcal/kg higher than other similar products in the market. It also has higher protein and digestible amino acids when compared with other full fat soybean meals. Its superior performances were proven in several feeding trials (see references).

This product is widely used in commercial farms contributing to significant improvements in growth performances with reduction in mortality. It can be used with good results in poultry, swine and aquafeed. Its higher energy and amino acids availability also help to lower the cost of feeds.

Comparing The Processing of Hi-E™ Dehulled Full Fat SBM vs Normal Full Fat SBM



Benefits:

- ✔ *Dramatically improves performance and greatly reduce mortality.*
- ✔ *High nutrients availability.*
- ✔ *High ME with low heat increment.*
- ✔ *Intrinsic Oil with Lecithin improves oil digestion & utility.*
- ✔ *High Linoleic acid content increases egg size & production.*
- ✔ *Improves sow reproduction system, higher piglet survival rates with increased weaned weights.*
- ✔ *Contains Isoflavones, Tocopherols etc. which helps improve health status of animals.*

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Specification	
Moisture, % max	12.5
Protein, % min	36.0
Oil, % min	20.0
Fibre, % max	3.0
Urease Activity, Δ pH	< 0.2

Nutrients Matrix	
Crude Protein, %	36.0
ME Poultry, Kcal/kg	3950
DE Swine, Kcal/kg	4744
ME Swine, Kcal/kg	4480
NE Swine, Kcal/kg	3861
Lysine, %	2.528
Methionine, %	0.633
M+C, %	1.143
Tryptophan, %	0.439
Threonine, %	1.401
Arginine, %	2.457
Isoleucine, %	1.646
Valine, %	1.713
Crude Fat, %	21.0
Crude Fiber, %	3.0
Calcium, %	0.24
Available Phosphorus, %	0.19
Total Phosphorus, %	0.53
Sodium, %	0.02
Choline, mg/kg	2300

Nutrients Matrix	
Chloride, %	0.016
Digestible Lysine, Poultry %	2.308
Digestible Methionine, Poultry %	0.577
Digestible M+C, Poultry %	1.051
Digestible Tryptophan, Poultry %	0.397
Digestible Threonine, Poultry %	1.259
Digestible Arginine, Poultry %	2.255
Digestible Isoleucine, Poultry %	1.491
Digestible Valine, Poultry %	1.555
Digestible Lysine Pigs, %	2.320
Digestible Methionine Pigs, %	0.594
Digestible M+C Pigs,%	1.071
Digestible Tryptophan Pigs, %	0.392
Digestible Threonine Pigs, %	1.230
Digestible Isoleucine Pigs, %	1.501
Digestible Valine Pigs, %	1.597
Dry Matter, %	89.0
Linoleic Acid, %	11.0

RECOMMENDED INCLUSION RATES

Animal Types	Feeding Phases	Inclusion Rate, %
Poultry	Broiler Starter	5 - 10%
	Broiler Grower / Finisher	5 - 15%
	Layer / Breeder	5 - 10%
Pigs	Prestarter	5- 10%
	Starter	10 - 15%
	Grower / Finisher	3 - 5%
	Gestating Sow	3 - 5%
	Lactating Sow	10 - 15%
Fish / Shrimp	Aquaculture	8 - 20%

References:

1. *Neoh, S.B. and Ng, L.E., 2004. The use of a new high efficiency soybean meal and full fats soybean meal to improve the performance of poultry feeding. 11th AAAP Congress.*
2. *Neoh, S.B. and Raghavan V., 2004. Dehulled 'FULL FAT' soybean meal improves broiler and layer performance. Proceedings of APSS. Vol 16 p.67.*
3. *Neoh, S.B. and Ng, L. E., 2007. The optimal usage of dehulled full fat soybean meal in broiler starter diets. Conferences Proceedings of the 8th APPC. p 66-68.*
4. *Neoh, S.B., 2008. Full fat soybean meal processing, use and quality considerations. ASAIM FTNW.*
5. *Ng, L.E., 2008. Full fat soybean meal revisited. Soybean Meal Quality Conference.*
6. *Ng, LE., Tan, CH. and Teh, CC., 2011. The use of dehulled full fat soybean meal and lecithin in sow and piglets feeds. Pig Feed Quality Conference.*

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