



COMMODITY NUTRIENT PROFILE

CANOLA MEAL

DESCRIPTION:

Canola is the name selected for the so-called “double-low” varieties of Rapeseed that have been developed in Canada. (“Double-low” means less than 5% erucic acid and less than 3 mg/gm. of glucosinolate in the seed and by-products). **Canola** has been a significant development in Rapeseed production and processing since the product can be used in a much wider variety and at increased levels in livestock feeding than the older high glucosinolate varieties of Rapeseed formerly available.

Canola Meal is obtained by subjecting the seed to a cleaning and warming process prior to extraction. In Canada currently three types of **Canola** extraction processes are used: expeller pressing, solvent extraction and prepress solvent extraction. Prepress solvent extraction is a combination of the expeller/solvent method and is the most commonly used procedure. Where solvents are used in the processing, heat is applied after extraction to remove residual solvent from the meal. **Canola Meal**, by definition, is the residue left after the oil is extracted by one of the above described methods.

TYPICAL ANALYSIS:

		<u>DMB</u>	<u>AS FED</u>			<u>DMB</u>	<u>AS FED</u>
Dry Matter	%	100.0	88.0	Ash	%	7.8	7.2
Crude Protein	%	38.6	34.0	TDN	%	69.6	64.0
Fat	%	4.6	4.0	N.F.E.	%	45.5	41.9
Crude Fiber	%	13.2	12.0	DE	Mcal/lb	1.36	1.27
A.D. Fiber	%	16.3	15.0	NE _l	Mcal/lb	0.72	0.68
Calcium	%	0.8	0.7	NE _m	Mcal/lb	0.72	0.68
Phosphorus	%	1.3	1.2	NE _g	Mcal/lb	0.49	0.31

* Listed data are average values only and not considered as guarantees, expressed, or implied, nor as a condition of sale. For guaranteed specs refer to label.

STORAGE HANDLING:

Canola Meal is available in bulk and as such stored in traditional bulk bins and handled accordingly, or in farm application placed on cement slabs (covered and protected from the weather accordingly). Like all feedstuffs, **Canola Meal** should have dry, insect free storage.

USE AND APPLICATION:

In Canada **Canola Meal** on a per unit basis of protein is often the most economic source of this nutrient. **Canola Meal** is more palatable to livestock than the “old” Rapeseed Meals were, and is now very well accepted by the livestock industry and Animal Nutritionists.

Current **Canola Meal** maximum use levels, made by the Canola Council of Canada are: Beef and Sheep - all supplemental protein; Dairy cows - 25% of concentrate; Pigs - 10-15%, and the sole protein for Breeder and Finisher Hogs. Producers wishing to employ higher **Canola Meal** use levels should obtain Nutritional expertise. Newer **Canola** varieties and animal feeding trails may modify the above maximum limits!

As with all feedstuffs, **Canola Meal** must be supplemented with the necessary vitamin and mineral constituents necessary in a properly balanced ration. The optimal use of **Canola Meal** is best attained by the use of linear programming techniques where the favourable economics and attributes of this feedstuff can best be utilized.

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