



IS 1932: 1986- Mustard and Rape Seed Oilcake As Livestock Feed Ingredient

Mustard accounted for 26% of total **Oilseeds** produced in India, and the production is expected to rise. **Mustard cake**, about 60% of the seed, is generated as by-product during **extraction of the oil**. Mustard and Rapeseed Oilcake is a widely used livestock feed that provides essential nutrients to animals. India holds third position in world for production of mustard cake. The cake/meal, i.e. the residue/by-product obtained after extraction of oil is used as a **feed** for cattle, poultry and aquatic animal (1). Mustard cake has a good balance of **essential amino acids** and relatively high **methionine** content (2).

The **Indian Standard IS 1932:1986**, revised on January 31, 1986, defines its **quality** requirements and **testing methods**, ensuring it meets **safety and nutritional needs**. This standard categorizes the oilcake into two types based on pressing methods: **hydraulic or expeller pressed** and **ghani or kolhu pressed**. Each type is available in two quality grades: **High Fat (HF)** and **Low Fat (LF)**, catering to diverse dietary needs.

To meet **consumer expectations** for **quality**, the standard mandates that oilcake must be free from **harmful constituents**, **rancidity**, **adulterants**, and **extraneous matter**. Specific limits are set to control **moisture content**, **protein**, **fat**, **fibre**, and **ash levels**. For HF grade oilcake must contain a minimum of 35% **crude protein** and 8% **crude fat**. For LF grade, the minimum requirements are 33% protein and 5% fat. Moisture is capped at 10%, crude fiber at 9% for HF and 10% for LF, with a maximum of 8% total ash for HF and 9% for LF. **Acid-insoluble ash** content is also strictly limited to ensure **product purity**, with a maximum of 1.5% for HF and 2.0% for LF.

Packaging is a critical aspect of the standard, with requirements for clean jute or HDPE bags labeled with details such as **product name**, **type**, **grade**, **manufacturer**, **batch number**, **net weight**, and **packing date**. The standard includes sampling and testing guidelines to uphold quality control and compliance, giving **consumers confidence** in the product's **reliability** and **nutritional value**.

References:

1. *IS 1932:1986*, Indian Standard for Mustard and Rape Seed Oilcake As Livestock Feed Ingredient-Specification,
2. *Das et al*, Indian Journal of Traditional Knowledge Vol. 14 (2), April 2015, pp. 244-250.
3. *Kadegowda et al*, Small Ruminant Research, vol 44(1), April 2002, pg 47-51.