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PAKISTAN STANDARD

SPECIFICATION FOR COTTON SEED OILCAKE FOR LIVESTOCK FEED



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PAKISTAN STANDARDS INSTITUTION,
39 – Garden Road, Saddar,
Karachi-74400.

**PAKISTAN STANDARD SPECIFICATION
FOR
COTTON SEED OILCAKE FOR LIVESTOCK FEED**

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Deptt. of Zoology,
Punjab University, Lahore.

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| 26. | Dr. F.R.M. Alvi, F.A.O.
Consultant | 88-Tipu Block,
New Garden Town,
Lahore-16. |
| 27. | Dr. Naseer A. Butt.
Umda Feeds Ltd., | Model Town Market,
Gujranwala. |
| 28. | Dr. M. Asad Hasan,
Director (Ex-Officio). | Pakistan Standards Institution,
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PAKISTAN STANDARDS SPECIFICATION
FOR
COTTONSEED OILCAKE FOR LIVESTOCK FEED

0. FOREWORD :

0.1 This Pakistan Standard was adopted by the Pakistan Standards Institution on 6th & 7th May, 1986 on the draft finalized by the Animal Feeds Sectional Committee had been approved by the Agricultural and Food Products Divisional Council.

0.2 The formulation of this Standard was undertaken by the Animal Feed Sectional Committee in accordance with the programme planned for the preparation of Pakistan Standards for the various ingredients used in compounding feed mixtures. It is expected that the standard will assist in the development of the mixed feeds industry in Pakistan.

0.3 Cottonseed Oilcake provides a rich source of proteins and is extensively used as a protein supplement in livestock rations. But it has been observed that cottonseed oilcake containing more than 0.065 percent by weight of free gossypol is not suitable for feeding monogastric animals such as poultry. Therefore, in order to safeguard the interests of the consumer a provision has been made in this standard which calls for an agreement between the purchaser and the supplier regarding the free-gossypol content of cottonseed oilcake.

0.4 For the purpose of deciding whether a particular requirements of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with PS:103-1960. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE :

1.1 This Pakistan Standard prescribes the requirements and the methods of sampling and test for expeller pressed cottonseed oilcake for livestock feed.

2. TYPES :

2.1 The material shall be of the following two types :

- (a) Decorticated Cottonseed Oilcake. – It shall be the product of clean cottonseed only, composed principally of the kernel with such unavoidable portions of the hull and fibre as may be left in the course of the extract of oil.
- (b) Undecorticated Cottonseed Oilcake. – It shall be the product resulting from the whole, clean and, wherever necessary, delinted the (especially in the case of fuzzy seeds) cottonseed only, after extraction of oil.

3. REQUIREMENTS :

3.1 Description. – The material shall be fum, but not flinty in texture. It shall be free from rancidity, adulterants insect or fungus infestation and from fermented, musty of other objectionable odour. It shall be free from extraneous matter, such as dirt, iron or other metallic pieces.

3.1.2 Freedom from Harmful Constituents. – Expeller pressed cottonseed oilcake shall be free from harmful constituents, like castor cake or husk or both, when tested according to the method prescribed in 12 of DPSS for Methods of sampling and test for oil cakes as Livestock feed.

3.3 The material shall also conform to the requirements prescribed in Table 1.

4. PACKING AND MARKING :

4.1 Packing. – Unless agreed otherwise between the purchaser and the vendor, the material shall be packed in clean and sound jute polythylene/cotton bag. Each bag shall contain 75 kg. of the material. The mouth of each bag shall be either machine stitched or rolled over and hand-stitched. If hand stitched the stiches shall be with strong jute twine cotton or nylon threads at least 14 stiches in each row.

TABLE 1
REQUIREMENTS FOR COTTONSEED OILCAKE FOR
LIVESTOCK FEED (2ND REVISION)

SL. NO.	CHARACTERISTIC	REQUIREMENTS FOR		METHOD OF TEST PS:233 – 1963
		Decorticated Cottonseed Oilcake	Undecorticated Cottonseed Oilcake	
1	2	3	4	5
(i)	Moisture percent by weight	8 – 10	8 – 10	D
(ii)	Crude protein percent by weight	35 – 42	20 – 24	E
(iii)	Crude fat, percent by weight.	4 - 7	5 – 8	F
(iv)	Crude fibre, percent by weight	8 – 11	20 – 25	G
(v)	Acid insoluble ash percent by weight	2.0 – 2.5	2.0 – 2.5	H

Note :- The values specified for requirements (ii) to (v) are calculated on moisture-free basis.

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4.2 Marking – Each bag shall be suitable marked to give following information :

- (a) Name and type of the material.
- (b) Name of the manufacturer.
- (c) Batch or code number.
- (d) Net weight in kg. and
- (e) Date of packing.

5. SAMPLING :

5.1 Representative samples of the material for tests shall be drawn according to the procedure prescribed in PS – 659-1968 Linseed oilcakes as Livestock feed & Expeller type.

6. TESTS :

6.1 Tests shall be carried out as specified in Table 1. The individual samples shall be tested for crude fat and the composite sample be tested for the remaining characteristics.

