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全价宠物食品 犬粮

Complete pet food—Dog food

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Forward

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is proposed and managed by the National Standardization Technical Committee of Feed Industry (SAC/TC 76).

This standard was drafted by: China Feed Industry Association, Mars Foods (China) Co., Ltd.

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Complete pet food—dog food

1. Scope

This standard specifies the terms and definitions, requirements, test methods, inspection rules, labelling, and packaging, transportation, storage and shelf life of complete pet food - dog food.

This standard applies to industrially processed and produced complete pet food - dog food, except for prescription dog food.

2. Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this document. For undated references, the latest edition (including all amendments) applies to this document.

GB 4789.26 National Food Safety Standard Food Microbiological Test Commercial Sterility Test

GB/T 6432 Determination of Crude Protein in Feed

GB/T 6433 Determination of Crude Fat in Feed

GB/T 6434 Determination of Crude Fiber Content in Feed by Filtration Method

GB/T 6435 Determination of Moisture and Other Volatile Matter Content in Feed

GB/T 6436 Determination of Calcium in Feed

GB/T 6437 Determination of Total Phosphorus in Feed Spectrophotometric

GB/T 6438 Determination of Crude Ash in Feed

GB/T 6439 Determination of Water-soluble Chlorides in Feed

GB/T 13079-2006 Determination of Total Arsenic in Feed

GB/T 13080 Determination of Lead in Feed by Atomic Absorption Spectrometry

GB/T 13081 Determination of Mercury in Feed

GB/T 13082 Determination of Cadmium in Feed

GB/T 13083 Determination of Fluoride in Feed by Ion-selective Electrode Method

GB/T 13091 Determination of Salmonella in Feed

GB/T 13093 Determination of Total Bacteria in Feed

GB/T 18246 Determination of Amino Acid in Feed

GB/T 23372 Determination of Inorganic Arsenic in Food by Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry

NY/T 2071 Determination of Aflatoxin, Zearalenone and T-2 Toxin in Feed Liquid Chromatography-tandem Mass Spectrometry

SN/T 3561 Entry Port Health Supervision Food Sampling and Sample Delivery Procedures

Catalogue of Feed Additives - 2013 (Ministry of Agriculture Announcement No.2045)

Catalogue of Feed Raw Materials (Ministry of Agriculture Announcement No.1773)

3. Terms and Definitions

The following terms and definitions apply to this document.

Pet

Dogs and cats kept as companion animals in households, or dogs for work purposes.

Pet food

Industrially processed and prepared food for feeding pets, including complete pet food and supplementary pet food; divided into dry (type) pet food, semi-moist (type) pet food and wet (type) pet food according to the moisture content pet food.

Complete pet food

A pet food that contains nutrients and energy other than water to meet the daily nutritional needs of pets.

Complementary pet food

Pet food is a mixture of two or more pet food raw materials, but due to its incomplete nutrition, it needs to be used in conjunction with other pet food to meet the pet's daily nutritional needs.

Dry (type) pet food

Pet food with a moisture content of less than 14%.

Semi-moist (type) pet food

Pet food with a moisture content of not less than 14% and less than 60%.

Wet (type) pet food

Pet food with a moisture content of not less than 60%.

Prescription pet food - Prescription diet, therapeutic diet, veterinary diet

Special nutritionally designed pet food for pet health problems needs to be used under the guidance of a licensed veterinarian, including complete prescription pet food and supplementary prescription pet food.

4. Definition of juvenile and adulthood

The juvenile and adult periods of dogs are divided according to Table 1.

Table 1 - The juvenile and adult periods of dogs

Adult weight/kg	Juvenile/age in month	Adult/age in month
≤5	< 9	≥9
5 ~ 20	< 12	≥12
20 ~ 40	< 18	≥18
≥40	< 21	≥21

5. Requirements

5.1 Raw material requirements

The raw materials and additives used in the production of pet food should meet the requirements of the "Catalogue of Feed Raw Materials" and "Catalogue of Feed Additives (2013)" and the corresponding hygiene standards.

5.2 Sensory indicators

No mildew and lumps.

5.3 Physical and chemical indicators

Should comply with the provisions of Table 2 and Table 3.

Table 2 Main physical and chemical indicators

Item	Indicators (dry matter based) / %		Test method
	Juvenile dog food, pregnant dog food, lactating dog food	Adult dog food	
Crude protein	≥22.0	≥18.0	GB/T 6432
Crude fat	≥8.0	≥5.0	GB/T 6433
Crude ash	≤10.0	≤10.0	GB/T 6438
Crude fiber	≤ 9.0	≤9.0	GB/T 6434
Calcium	≥1.0	≥0.6	GB/T 6436
Total phosphorus	≥ 0.8	≥0.5	GB/T 6437
Water-soluble chloride (as Cl ⁻)	≥ 0.45	≥0.09	GB/T 6439
Lysine	≥0.77	≥0.63	GB/T 18246

Table 3 Moisture

Product type	Indicator (x) / %	Test method
Dry (type) dog food	$x < 14.0$	GB/T 6435
Semi-moist (type) dog food	$14.0 \leq x < 60.0$	
Wet (type) dog food	$x \geq 60.0$	

5.4 Hygiene indicators

Should comply with the provisions of Table 4.

Table 4 Hygiene Indicators ^a

Item	Indicator	Test method
Fluorine/(mg/kg)	≤150	GB/T 13083
Cadmium/(mg/kg)	≤2	GB/T 13082
Mercury/(mg/kg)	≤0.3	GB/T 13081—2006 (Atomic fluorescence spectrometry)

Lead/(mg/kg)	≤5	GB/T 13080
Total Arsenic (based on As) /(mg/kg)	≤10 ^b (The content of inorganic arsenic should not exceed 2 mg/kg)	Total Arsenic: GB/T 13079 - 2006 (Erbium salt method)
	≤2 ^c	Inorganic arsenic: GB/T 23372
Aflatoxin B ₁ /(μg/kg)	≤10	NY/T 2071
Total number of bacteria /(CFU/g)	< 1 × 10 ⁴ ^d	GB/T 13093
Salmonella (25g medium)	Not found	GB/T 13091
Microorganism	Complies with commercial sterility requirements ^e	GB 4789.26
^a The allowable amounts listed in the table are calculated as 88% dry matter content unless otherwise specified (except for microbial pollutant indicators). ^b Complete pet food - dog food containing aquatic animals and their products or algae and their products. ^c Other complete pet food - dog food. ^d Except complete pet food - dog food with moisture of 60% or more. ^e Complete pet food - dog food with 60% moisture or more.		

6. Inspection rules

6.1 Batch

A batch refers to products produced with the same material, the same process and the same shift.

6.2 Sampling

Comply with SN/T 3561 regulations.

6.3 Factory inspection

Each batch of products should be inspected before leaving the factory, and only qualified products can leave the factory. The factory inspection items are sensory indicators, crude protein, crude fat, crude ash, calcium, total phosphorus, and moisture.

6.4 Type inspection

Type inspection shall be carried out in one of the following situations:

- When the product is put into production
- When there is a major change in the process, formula or source of raw materials, which may affect the quality of the product
- In normal production, at least once a year
- When production resumes after a long-term shutdown
- When there is a big difference between the factory inspection results and the last type of inspection
- When the national feed management department puts forward the requirements for type inspection

6.5 Judgment Rules

If there are unqualified items during the inspection, it is allowed to re-sample from the packaging of twice the amount of the same batch of products for re-inspection; if there are still unqualified items in the re-inspection results, the batch of products will be judged as unqualified products.

If one of the results of the microbiological index test fails, it is judged to be unqualified and cannot be re-inspected.

7. Labels

A label should be attached to the package, indicating the product name, raw material composition, guaranteed value of product composition analysis, net weight or net content, storage conditions, instructions for use, precautions, production date, shelf life, production company name and address, license document number and product quality standard number, etc.

8. Packaging, transportation, storage and shelf life

8.1 Packaging

The packaging should be sealed, moisture-proof, waterproof, and not easily damaged. Packaging materials should be non-toxic and harmless.

8.2 Transportation

The means of transport should be clean, dry, and protected from rain and pollution. Do not mix or transport with poisonous or harmful substances.

8.3 Storage

The product should be stored in a cool, ventilated and dry place, pay attention to waterproof, mildew-proof, rodent-proof and insect-proof, and should not be mixed with toxic and harmful items.

8.4 Shelf life

The shelf life of the product should be determined according to the characteristics of the product, and the product within the shelf life should meet the requirements of the product quality standard.