

# Tofu Cat Litter specifications and Manufacturing Process

specifications for Tofu Cat Litter:

| Specification    | Description   |
|------------------|---|
| Material         | Tofu (Soybean residue, Corn starch)                       |
| Particle Size    | 2 mm to 3 mm diameter                                     |
| Absorption Rate  | 300% to 400%  |
| Clumping Ability | Strong, forms solid clumps                                |
| Dust Level       | Low, less than 1%   |
| Weight           | 2 kg, 6 kg, 10 kg, or customized weights                  |
| Color            | Natural, Green, Pink, or customized                       |
| Scent Options    | Unscented, Green Tea, Lavender, Charcoal                  |
| Biodegradable    | Yes   |
| Flushable        | Yes, safe for toilets                                     |
| Packaging        | Plastic bags, Paper bags, or customized packaging         |
| Shelf Life       | 2 years   |
| Application      | Cat litter for domestic cats                              |
| Features         | Eco-friendly, odor control, easy to scoop, gentle on paws |

process of manufacturing Tofu Cat Litter in a factory, including relevant data:

## Tofu Cat Litter Manufacturing Process

### 1. Raw Material Preparation

- **Soybean Residue:** Collected from tofu or soy milk production.
- **Corn Starch:** Used as a binder to enhance clumping.
- **Other Additives:** Natural fragrances (e.g., green tea, lavender), colorants if needed.

### 2. Mixing

- **Mixing Ratio:** Typically, 70% soybean residue and 30% corn starch.
  - **Mixing Time:** Approximately 20 minutes to ensure uniformity.
3. **Extrusion**
    - **Extruder Temperature:** 150° C to 200° C.
    - **Extrusion Rate:** 500 kg/hour.
    - **Pellet Size:** 2 mm to 3 mm diameter.
  4. **Drying**
    - **Drying Temperature:** 80° C to 100° C.
    - **Drying Time:** 4 to 6 hours.
    - **Moisture Content after Drying:** Less than 10%.
  5. **Cooling**
    - **Cooling Method:** Air-cooled.
    - **Cooling Time:** 1 to 2 hours to reach room temperature.
  6. **Screening**
    - **Screen Mesh Size:** 2 mm to 3 mm.
    - **Purpose:** To remove dust and ensure uniform particle size.
  7. **Fragrance and Additive Application**
    - **Method:** Spraying or mixing.
    - **Additive Quantity:** 1% to 2% of the total weight.
  8. **Packaging**
    - **Packaging Types:** Plastic bags, paper bags, or custom packaging.
    - **Weight per Bag:** 2 kg, 6 kg, 10 kg.
    - **Packaging Speed:** 30 bags per minute.
  9. **Quality Control**
    - **Tests Conducted:** Absorption rate, clumping ability, dust level.
    - **Frequency:** Every batch.
  10. **Storage and Distribution**
    - **Storage Conditions:** Cool, dry place.
    - **Shelf Life:** 2 years.
    - **Distribution:** Packed in pallets for easy transportation.

## Key Data

| Parameter            | Value                                |
|----------------------|--------------------------------------|
| Mixing Ratio         | 70% soybean residue, 30% corn starch |
| Extruder Temperature | 150° C to 200° C                     |
| Extrusion Rate       | 500 kg/hour                          |
| Drying Temperature   | 80° C to 100° C                      |

| Parameter          | Value              |
|--------------------|--------------------|
| Drying Time        | 4 to 6 hours       |
| Moisture Content   | Less than 10%      |
| Cooling Time       | 1 to 2 hours       |
| Additive Quantity  | 1% to 2%           |
| Packaging Speed    | 30 bags per minute |
| Storage Conditions | Cool, dry place    |
| Shelf Life         | 2 years            |

This detailed process ensures high-quality tofu cat litter with excellent absorption, clumping ability, and low dust levels.