TECHNICAL DATA SHEET

FOOD-GRADE SILICONE MESH FOR DEHYDRATION AND INSECT FARMING APPLICATIONS

Product Description

Flexible mesh made from food-grade silicone, designed to improve airflow and moisture drainage during drying, dehydration, and biological material handling processes. Its open-grid structure promotes uniform ventilation while preventing products from sticking to the surface.

In addition to food dehydration applications, this mesh can be used in insect farming systems for material separation, substrate support, airflow management, and humidity control throughout different production stages.

Technical Specifications

Parameter	Value
Material	Food-grade silicone
Color	Translucent white
Dimensions	63 × 63 cm
Approximate Thickness	1.5 – 2 mm
Structure	Open perforated mesh
Shape	Square
Flexibility	High
Surface Finish	Non-stick
Reusable	Yes
Washable	Yes
Food Contact Safe	Yes
Moisture Resistance	Excellent
Chemical Resistance	High resistance to standard cleaning agents
Indoor Use	Yes

Key Features

- Manufactured from food-grade silicone.
- Open mesh design for optimal airflow circulation.
- Non-stick surface for easy cleaning and maintenance.

- Flexible, durable, and resistant to repeated use.
- Suitable for multiple production cycles.
- Resistant to moisture and biological degradation.
- Easy to handle, transport, and store.
- Can be cut or adapted for specific applications without losing functionality.

Recommended Applications

Food Processing

- Fruit and vegetable dehydration.
- Herb and botanical drying.
- Food processing operations.
- Airflow and drainage systems.

Insect Farming

- Breeding tray support.
- Material separation systems.
- Ventilation enhancement in insect-rearing containers.
- Airflow and humidity management.
- Experimental incubation and rearing applications.

Research and Laboratory Use

- Biological testing.
- Controlled drying processes.
- Material separation and filtration systems.

Cleaning and Maintenance

- Clean with water and a mild detergent after use.
- May be disinfected using products compatible with food-grade silicone.
- Allow to dry completely before storage.
- Store in a clean, dry location away from direct sunlight.

Commercial Presentation

Product	Dimensions
Food-Grade Silicone Mesh	63 × 63 cm

Additional Notes

Technical specifications may vary slightly depending on the manufacturing batch. Users are encouraged to perform preliminary testing for specific industrial, research, or insect farming applications.

This product is intended for professional use and can be integrated into insect breeding, incubation, processing, and handling systems where airflow, drainage, and hygiene are critical factors.