## Muffle Furnace, 7L, 1100°C, N



Muffle Furnace

### Lab Muffle Furnace

The Lab Muffle Furnace is engineered with high-quality electric furnace wire and alumina ceramic fiber insulation material, offering efficient and reliable high-temperature heat treatment solutions. It is ideal for processes like **quenching, annealing, and tempering** of small steel parts in industrial and mining enterprises, universities, and research institutes. Additionally, it serves as an excellent pre-treatment device for **sintering, ashing analysis**, and more, handling materials like metal, stone tools, and ceramics.

### Product Details

- The furnace combines durability and performance, employing **alumina ceramic fiber insulation** and premium **electric furnace wires** to ensure uniform heating and efficient insulation.

- Designed for multi-purpose applications including **heat treatment**, **material preparation**, and **analytical procedures**.

### Key Features

International Safety Compliance: Meets global electrical safety standards.
Advanced Temperature Control:
o        Equipped with a microcomputer PID controller for precise and reliable control.
o        Includes a programming setting function with 7 periods and 9 steps for each period (total of 63 programmable steps).
Superior Build Quality:
o        High-grade heating elements with excellent aging and corrosion resistance.
o        Lightweight, corrosion-resistant ceramic fiber furnace.
Efficient Combustion: Integrated chimney enhances combustion efficiency.
Ergonomic Design:
 o        Powder-coated cold-rolled steel housing.
o        Lightweight door for safe and easy operation.
Customizable Features: Preset start and off functions available as per user requirements.

**Safety Features**

- **Low Noise Cooling Fan**: Reduces external temperature effectively.
- **Overload Protection**: Guards against over-current, over-voltage, and overheating.
- **Automatic Shutdown**: Safety switch ensures the furnace turns off when the door is opened.
- **Heat Insulation**: Ceramic fiber insulation minimizes shell surface temperature, preventing burns.

**Specifications for Model MSCXG2218OSWISS**

**General Information**

- **Model:**  MSCXG2218OSWISS
- **Chamber Volume:**  07 L
- **Temperature Range:**
    - **Maximum:** 1100°C
    - **Working:** 1000°C
- **Preset Start and Off:** Yes
- **Programmable Controller:**  Yes
- **Data Logging:**  USB (optional)

## Technical Features

- **Sensor:** Type K Thermocouple
- **Insulation Material:** Alumina Ceramic Fiber
- **Heating Element:** Fe-Cr-Al
- **Heating Time:** 35-65 minutes

## Dimensions

- **Interior Dimensions (W x D x H):** 200 × 300 × 120 mm
- **External Dimensions (W x D x H):** 460 × 650 × 674 mm

## Safety Features

- Chimney: Yes
- Over-Current Protector: Yes
- Power Failure Memory: Yes
- Anti-Scalding Protection: Yes

## Power and Electrical Requirements

- **Power Consumption:** 4 kW
- **Power Supply:** 220V, 50/60Hz, Single Phase

## Applications

- **Industrial and Mining Enterprises**: Heat treatment of small steel parts.
- **Universities and Research Institutes**: Material preparation, sintering, and ashing analysis.
- **Ceramic and Metalwork**: Pre-treatment for various analytical and industrial

processes.

This muffle furnace is a robust, versatile tool suitable for demanding industrial and academic settings, ensuring consistent results and long-lasting performance.