Muffle Furnace, 7L, 1200°C

Model **MSCXG2318SWISS** | Brand **Master Science** | Unit **Pc**



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.

KEY HIGHLIGHTS

- Efficient Combustion
- Low Noise Cooling Fan
- Overload Protection
- Automatic Shutdown
- Heat Insulation

AT A GLANCE

1200
TEMPERATURE (°C)MAXIMUM

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

Overview

Additionally, it serves as an excellent pre-treatment device for sintering, ashing analysis, and more, handling materials like metal, stone tools, and ceramics.

Key Features

International Safety Compliance
Meets global electrical safety standards. Equipped with a microcomputer PID controller for precise and reliable control. Includes a programming setting function with 7 periods and 9 steps for each period (total of 63 programmable steps). High-grade heating elements with excellent aging and corrosion resistance. Lightweight, corrosion-resistant ceramic fiber furnace.

Efficient Combustion
Integrated chimney enhances combustion efficiency. Powder-coated cold-rolled steel housing. Lightweight door for safe and easy operation.

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.

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

Technical Specifications

PARAMETER	SPECIFICATION
Chamber Volume (L)	7
Temperature (°C)	Maximum 1200
Preset Start and Off	Yes
Programmable Controller	Yes
Datalogging	USB (optional)
Sensor	Type K thermocouple
Insulation Material	Alumina ceramic fiber
Heating Element	Fe-Cr-Al
Heating Time (mins)	30-52
Interior Dimensions (mm)	200 × 300 × 120
Exterior Dimensions (mm)	460 × 650 × 674
Net Weight (Kg)	45
Power Consumption (kW)	3
Power Supply	220V, 50/60Hz, 1 Phase
Testing Environment	25°C
Safety Features	Chimney, Over-current protector, Power failure memory, Anti-scalding protection

Applications

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.