Wheelchair Cushion Flame Resistance Tester

This tester determines the flame resistance of wheelchair seat cushions. It uses controlled ignition to assess material reaction, ensuring safety standards are met.

ADDITIONAL IMAGES

Product Overview

Precision Safety Testing

This flame resistance tester is a specialized analytical instrument designed to evaluate the fire safety of wheelchair seat and back cushion materials. By simulating exposure to common ignition sources like cigarettes and matches, the device provides accurate assessments of flammability and combustion characteristics. Engineered for compliance with international standards, it offers a controlled, professional-grade environment essential for manufacturers and safety regulatory laboratories.

Technical Standards

Compliance Standards	GB/T 18029-2000, ISO 7176-16:1997

Core Parameters

Performance Metrics

99.99 s	1 s	45 mL/min
Ignition Time Range	Smoldering Time Accuracy	Gas Flow Velocity

Hardware Dimensions

Test Frame Dimensions

Component	Size
Back Frame (L x H)	450x300 mm
Seat Frame (W x D)	450x150 mm
Combustion Tube (External Dia.)	8 mm

System Features

Safety & Control

- Integrated gas leak alarm system
- Collection tray for burning drops
- Constant temperature water bath with PID control
- Overload and short circuit protection
- Digital display for timing records

Power and Environment

Electrical & Lab Environment

- Power: 220V 50Hz
- Laboratory Temperature: 20±2°C
- Air Velocity at test frame: 0.02 - 0.2 m/s
- Fuel Gas: Propane