

# Limiting Oxygen Index Chamber

## LOI



### Features

- Easy to Operate – User needs only to ignite specimen and adjust gas flow
- Flexible Sample Testing – Specimens may be in rod, film or composite form
- Uniform Combustion Atmosphere – Nitrogen and oxygen are fully mixed in a special dispersion chamber and glass bead bed before entering column
- Precision Gas Flow Metering – Micro-adjustment flowmeters allow precise control of gases
- Conforms to ASTM D2863 and ISO 4589-1, ISO 4589-2
- Twin Gas Flowmeters with Control Needle Valves, Certified Calibration to  $\pm 0.5\%$
- Twin Gas Pressure Gages (0 to 100psi)
- Chimney Gas Dispersion Chamber with Glass Bead Bed
- Rigid Specimen Holder

### Standard Features

- Twin Gas Flowmeters with Control Needle Valves, Certified Calibration to  $\pm 0.5\%$
- Twin Gas Pressure Gages (0 to 100psi)
- Chimney Gas Dispersion Chamber with Glass Bead Bed
- Rigid Specimen Holder

### Optional Features

- Smoke Density Measurement System, includes Smoke Density Detector and Chart Recorder – Records variations in smoke generation throughout test (120Vac 60Hz or 230Vac 50Hz)
- Non-rigid Specimen Holder (for film, sheet, etc.)

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## Description

The advanced LOI Limiting Oxygen Index Chamber accurately determines the relative flammability of plastics and other materials. It conforms to ASTM D2863 and ISO 4589-1, ISO 4589-2 standards and provides a means for safely determining the relative flammability of materials by measuring the minimum

oxygen concentration that will support combustion. The test specimens are burned in a precisely controlled atmosphere of nitrogen and oxygen. The operator adjusts the supply gases and uses the flowmeter readings to calculate the oxygen index.

## Specifications

<b>Dimensions</b>	20"H x 12"W x 12.4"D ( 50.8cm x 30.5cm x 31.5cm)
<b>Weight</b>	32.5 lbs. (14.7kg)
<b>Gas Requirement</b>	Commercial grade or better Nitrogen (N <sub>2</sub> ) and Oxygen (O <sub>2</sub> )

All dimensions are in inches (millimeters).

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Refer to [www.dynisco.com](http://www.dynisco.com) for access to Operator Manual and other support documentation.  
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