



innovative solutions

Critical Oxygen Index Apparatus As per ASTM D 2863 SSI - 515 LOI



An ISO 9001:2008 Company
GMP compliant

Critical Oxygen Index apparatus is used for determining the minimum percentage of Oxygen required to just support flaming combustion of a material at room temperature in FTA mode or at Higher Temperature (up to 400oC) in HFTA mode. The sample is burned in the mixture of nitrogen and oxygen, and the percentage of oxygen required just to support the flaming combustion is recorded through an Galvanic Cell Oxygen Analyzer, which gives direct oxygen readings.

The apparatus also has a double walled test column of flame resistance glass of 75 mm dia. suitable for testing different size of samples in **FTA or HFTA** mode. A digital temperature-indicating controller provided with the instrument controls the temperature for HFTA mode. The instrument is manufactured as per the **ASTM** specification and also confirms various other international standards. The instrument comprising of

- Paramagnetic Oxygen Analyzer
- Double walled glass test column with heaters.
- Digital Temperature indicating controller.
- Analog Flow meters and valves
- Digital Readout for Oxygen (can be controlled within 0.1% of Oxygen).
- Digital Readout for Temperature. (can be controlled within 1°C.)
- Burner
- Sample Holder and hanger
- Thermocouple



LOI Die



(Actual instrument may differ from the photograph due to regular improvements)

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