

# **AUTOCLAVE EXPANSION TESTER (C070)**

Category: Cement



**Product Code:** C070

**Category:** CEMENT

**Sub-Category:** EXPANSION OF CEMENT

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- The Autoclave Expansion Tester is engineered to evaluate the soundness of hydraulic cement by determining its potential for delayed expansion due to the hydration of free

lime (CaO) and magnesia (MgO).

- This apparatus subjects cement specimens to high-pressure steam conditions, simulating accelerated aging to detect possible volumetric instability that could compromise structural integrity.
  - Constructed with a robust stainless steel chamber, the autoclave ensures uniform temperature and pressure distribution, maintaining consistent testing conditions as per standardized requirements.
  - Equipped with precise pressure and temperature control systems, including safety features such as a rupture disk or safety valve, the tester guarantees accurate and secure operation during the testing process.
  - The design facilitates easy loading and unloading of specimens, with a user-friendly interface that allows for straightforward monitoring and adjustment of testing parameters.
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## STANDARDS

ASTM C151 • ASTM C490 • EN 196-3 • AASHTO T107

## TECHNICAL SPECIFICATIONS

- Pressure Capacity: Up to 2.1 MPa (300 psi)
- Temperature Range: Ambient to 230°C
- Chamber Material: Stainless steel
- Safety Features: Rupture disk or safety valve, pressure relief system
- Control System: Digital temperature and pressure controllers
- Power Supply: 220-240 V / 50-60 Hz

## EQUIPPED WITH

- Pressure Gauge

## SUPPLIED WITH

- Specimen rack
- Digital Thermometer

## ORDERING INFORMATION

Item	Code
AUTOCLAVE EXPANSION TESTER	C070X00XU

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*Keywords: Autoclave Expansion Tester, cement soundness testing, ASTM C151, AASHTO T107,*

*EN 196-3, hydraulic cement expansion, high-pressure steam testing, cement durability assessment, ALFA Testing Equipment, cement autoclave test*