Magnesium / Sodium Sulphate Test Bath

LT-A0080 / LT-A0081 | LT-A0080/1 controlled water bath

Microprocessor control • Immersion container and lid • Separate accessories



20 ± 2 °C

STATED BATH OPERATING CONDITION

0.1 °C

TEMPERATURE DISPLAY RESOLUTION

EN 1367-2 • ASTM C88/C88M

Photograph and Water Bath Components

Top lid, temperature control, switches and ventilation

LT-A0080/1 is a water bath that maintains the sulphate solution at a controlled temperature. Temperature is monitored on the digital display. The bath includes an immersion container and lid; baskets, hydrometers and chemicals are selected separately.

TOP LID

The top lid covers the bath arrangement. The immersion container and lid are included with the bath.

TEMPERATURE CONTROL

The microprocessor-controlled system regulates temperature. Display resolution is 0.1 °C.



VENTILATION

The front grille forms part of the air inlet and outlet arrangement. Keep it clear during installation.

CONTROL SWITCHES

The front panel carries power and operating controls. Check the supply and test settings.



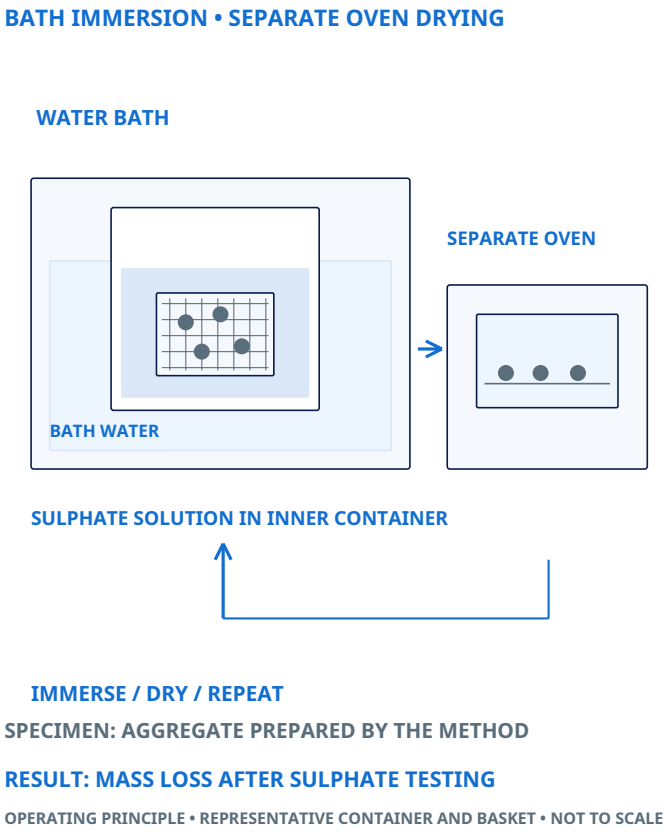
Top lid and bath body detail



Temperature display and control panel detail

From Immersion to Soundness Evaluation

Prepare solution • Immerse and dry • Evaluate losses



Prepare Solution and Specimen

Select salt and accessories for the method. Check saturated solution, temperature and specimen fractions.

Apply Immersion and Drying

Immerse the specimen in sulphate solution, then dry in a separate oven. Match durations and cycles to the method.

Evaluate the Specimen

Apply final preparation, washing and sieving as prescribed. Calculate mass loss and report salt and cycle details.

Repeated immersion in saturated sulphate solution and oven drying produce salt precipitation and rehydration effects within aggregate pores. The test provides a preliminary estimate of aggregate soundness; interpret results with the salt and method used.

Temperature and Solution Checks

The stated sulphate bath operating condition is 20 ± 2 °C. Verify the required test temperature and tolerance against the selected standard. The 0.1 °C display resolution does not represent measurement accuracy.

With the immersion container removed, the bath can operate from 15 to 60 °C for general-purpose use. Keep sulphate solution in the appropriate inner container; check solution density and condition as prescribed.

Salt Selection and Accessories

EN 1367-2 covers magnesium sulphate testing; ASTM C88/C88M covers soundness using magnesium or sodium sulphate. Apply the salt-specific acceptance criteria.

The bath includes an immersion container and lid. Baskets, basket containers, hydrometers and chemicals are selected separately. Match the oven, sieves and balance to the method.

Set Options and Bath Specifications

Magnesium and sodium sulphate options • LT-A0080/1 water bath

Set Code	Set Option	Test Method
LT-A0080	Magnesium sulphate	EN 1367-2 / ASTM C88/C88M
LT-A0081	Sodium sulphate	ASTM C88/C88M

Specification / Component	Technical Information
Water Bath Code	LT-A0080/1
Sulphate Operating Condition	20 ± 2 °C
Display Resolution	0.1 °C
General-Purpose Range	15–60 °C; with immersion container removed
Control System	Microprocessor control; digital temperature display
Dimensions / Weight	650 × 550 × 1000 mm / approximately 60 kg
Power Supply	220 V, 50–60 Hz, single phase
Bath Supply	With immersion container and lid
Lidded Box Options	LT-A0080/2; LT-A0080/3
Hydrometer Options	LT-G0674; LT-G0675
Chemical Options	LT-G0721 sodium; LT-G0749 magnesium sulphate

Match Salt, Temperature and Cycles to the Method

Check solution type and density. Apply immersion temperature, drying, durations and cycles according to the method; record results with the salt used.

From Aggregate to Sulphate Soundness Result

01
Prepare
Prepare specimen, solution and baskets.

02
Immerse
Hold in controlled solution as prescribed.

03
Dry
Dry in a separate oven and repeat cycles.

04
Evaluate
Calculate mass loss and report results.

Product Page | liyatest.com.tr/en/urun/magnesium-sulphate-sodium-sulphate-test-water-bath/