

PRODUCT TECHNICAL BRIEF

GELIT-1 Calibrated Helium Leak

GELIT-1 Calibrated Helium Leak - LeakLab solutions for leak testing, vacuum systems and test equipment.

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Technical Data

PARAMETER	PUBLISHED VALUE / INFORMATION
Leak-tightness class	Maximum permissible air-leak flow through the test object at operating pressure, Pa·m ³ /s
I	6.7×10^{-11} to 6.7×10^{-10}
II	6.7×10^{-10} to 6.7×10^{-9}
III	6.7×10^{-9} to 6.7×10^{-7}
IV	6.7×10^{-7} to 6.7×10^{-6}
V	6.7×10^{-6} to 6.7×10^{-4}

Technical and Project Information

GELIT-1 Calibrated Helium Leak with Russian State Verification

The sensitivity of a leak-testing system is checked using a GELIT-1 helium reference leak included in the Russian Federation State Register of Measuring Instruments. This reference gas-flow measure is subject to annual verification.

GELIT-1 gas-flow measures are used as reference standards for calibrating helium leak detectors during leak-tightness testing. They are supplied for leak-tightness class II under GOST R 50.05.01-2018, covering 5×10^{-10} to 5×10^{-9} Pa·m³ /s, and for class III, covering 5×10^{-9} to 5×10^{-7} Pa·m³ /s.

Purpose of a Helium Reference Leak

Helium reference leaks provide a stable, controlled helium flow for calibration and performance checks of helium leak detectors. This traceable reference allows a detector to quantify very small leaks reliably.

GELIT-1 is available in two versions that differ in leak-tightness class and flow range. Class II covers lower flows for detecting smaller leaks, while class III is intended for higher flows. The products are manufactured to the applicable GOST requirements.

Leak-tightness class

Maximum permissible air-leak flow through the test object at operating pressure, Pa·m³ /s

6.7×10^{-11} to 6.7×10^{-10}

6.7×10^{-10} to 6.7×10^{-9}

6.7×10^{-9} to 6.7×10^{-7}

6.7×10^{-7} to 6.7×10^{-6}

6.7×10^{-6} to 6.7×10^{-4}

- Helium Reference Leaks Capillary Helium Reference Leaks Gelit Reference Leaks Reference Leaks for Pfeiffer and Adixen ASM Detectors
- Capillary Helium Reference Leaks
- Gelit Reference Leaks
- Reference Leaks for Pfeiffer and Adixen ASM Detectors
- Scanning Electron Microscopes
- Leak-Detector Accessories

WORLDWIDE PROJECT CONTACT

Send the test object or system, operating conditions, target sensitivity or pressure range, applicable standard, destination country, quantity and schedule. LeakLab will review the project scope.

mail@leaklab.org

Regarding: GELIT-1 Calibrated Helium Leak

Specifications, standards, verification scope, availability and commercial terms must be confirmed for the exact configuration and destination jurisdiction before order or project acceptance.