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## **CONSOLIDATION CELLS (FLOATING) AZA0897**

The AZA0897 Consolidation Cell (Floating Type) is a precision-engineered component used in one-dimensional consolidation (oedometer) testing for determining the compressibility and settlement characteristics of fine-grained soils such as clays and silts. It is an essential accessory for geotechnical laboratories involved in foundation design, embankment analysis, and long-term settlement evaluation.

The floating ring design significantly reduces side-wall friction between the soil specimen and the confining ring, ensuring uniform vertical stress distribution and improving the accuracy of deformation measurements, particularly during low-stress stages and long-duration tests.



### **Key Features & Benefits**

- Floating ring design minimizes side-wall friction
- Uniform vertical load transfer for accurate results
- High sensitivity during low-stress consolidation stages
- Suitable for long-duration testing
- Interchangeable components for flexible laboratory setups
- Corrosion-resistant construction for extended service life

### **Standards Compliance**

- ASTM D2435 / ASTM D3877 – Consolidation Testing
- BS 1377 (Part 5) – Compression & Swelling Tests
- IS 2720 (Part 15) – Consolidation Properties



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**TECHNICAL SPECIFICATION**

<b>Parameter</b>	<b>Specification</b>
Model	AZA0897
Cell Type	Floating Ring Consolidation Cell
Sample Diameter	60 mm / 100 mm
Sample Thickness	Up to 25 mm (standard)
Material	Stainless Steel / Hard Anodized Aluminum
Drainage	Top & Bottom Porous Stones
Sealing	Gasket with Clamp Screws
Compatibility	Single, Double & Triple Gang Consolidometers
Accessories Included	Cutting Ring, Porous Stones, Loading Cap
Optional Accessories	Spacers, Loading Pads, Extra Drainage Components
Compliance	ASTM D2435, BS 1377, IS 2720



## UNIVERSE TECHNICAL SPECIFICATION

Parameter	Specification
Construction	Heavy-duty steel frame
Installation	Benchtop
Stability	High-mass, vibration-resistant design
Compliance	ASTM D2435, BS 1377-5

### Standards Compliance

- ASTM D2435 – One-Dimensional Consolidation Test
- BS 1377 (Part 5) – Compression & Swelling Tests
- Compatible with IS 2720 Series

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