



Product Code: MLo-033

ML33 DAC Cell

The ML33 DAC Cell is a miniature Diamond Anvil Cell (DAC) engineered for ultra-high-pressure experiments within SQUID (Superconducting Quantum Interference Device) magnetometers. Is compatible with confined spaces in cryogenic SQUID systems.

The pressure cell was made of nonmagnetic copper beryllium alloy and depending on the size of the diamond culets was capable of reaching a pressure of 15 GPa. The alignment of the anvils was achieved by adjusting the position of one of the diamonds in the horizontal plane while the other diamond was rotated by the seat support, which provided the option of the alignment. Pressure was applied by turning the nut at the back of the piston and thus transmitting the load onto the anvil attached at the opposite end. The cell is made of ultrapure BeCu alloys and the design is optimized in order to minimize the amount of the cell material around the sample and to provide large windows in order to improve the signal-to-background of the measurement.

TECHNICAL DATA

PRESSURE DRIVER	Screws
CELL MATERIAL	BeCu alloy
TOP ANGLE	Total angle
BOTTOM ANGLE	Total angle
MAX PRESSURE	up 15 GP depends of culet dimension
DIMENSIONS	Diameter 8,5 mm Height 33 mm

HIGHLIGHT

- Easy to use
- Amagnetic materials