

Abstract Submitted
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High pressure Moissanite-anvil cells for the low temperature Hall effect measurements of oxide superconductors¹ SHUSUKE YOMO, Tokai University, Sapporo, Japan, STANLEY W. TOZER, National High Magnetic Field Laboratory, Tallahassee, USA — The Hall effect was successfully measured for a single crystal of high temperature superconductor in a Moissanite-anvil clamp cell up to 5 GPa, with proper arrangement of lead wires and a sample. Zylon gasket, good in electrical insulation, worked well up to 5 GPa. The 30-40 % increase of the clamped pressure was observed during cooling to below 60 K. The appreciable pressure effect of the a-b plane Hall coefficient was observed and negative for $La_{2-x}Sr_xCuO_4$ with $x = 0.090$. The result is discussed with those for sintered samples and those studied with a different pressurizing method.

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