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The Effect of Sample Preparation on the Release Measurements of Manganin Gauges. DAN THOMAS, DAVID CHAPMAN, WILLIAM PROUD, Cavendish Laboratory, University of Cambridge — Sample preparation and alignment are recognized as essential parts of good experimental practice. As well as close attention to these factors it is also important to recognize that all measurement devices have an inherent resolution time. Depending on the parameter of interest the appropriate degree of sample preparation can be applied. In a previous paper [SCCM 2005] the effect of front surface roughness was compared, in this paper the effect of rear face preparation is addressed. Plate impact experiments on a PMMA sample are described and the stress history measured using Manganin gauges reported.

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