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## AS 2193-2002 Calibration and classification of force-measuring systems

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Abbreviation  
AS 2193-2002  
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### Description

This Standard specifies a procedure to be used in the calibration of working force standards, that is performed in either primary or secondary force standardizing machines by applying forces of known magnitude and uncertainty and deriving a mathematical relationship between applied force and instrument readings.

The estimation of the uncertainty associated with this mathematical relationship is included in the procedure.

### Scope

This standard specifies requirements for the static calibration of force-measuring instruments and their classification as working force standards. It also specifies the requirements for the static calibration of force-measuring systems of uniaxial testing machines and other force-measuring systems used for measuring the strength and other properties of materials, components, products, and assemblies.

The standard covers the following subjects:

- (a) Classification requirements for force-measuring systems of testing machines and other force-measuring systems.
- (b) Procedures for the calibration of force-measuring systems.
- (c) Requirements for the calibration and the classification of working force standards used for the verification of force-measuring systems.

### Notes:

1. Requirements for extensometers used in conjunction with tension and compression testing machines are given in AS

1545.

2. Advice and recommendations on information necessary for the performance of calibration are contained in the purchasing guidelines set out in Appendix A.

This standard applies to testing machines and force-measuring systems which indicate in terms of the SI unit of force, the newton (N), or in arbitrary units.

Note: Reference should be made to AS/NZS 1376 for the relationship between the newton and technical units of force.

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