

Refractories and refractory materials—Physical test methods

Method 13: Permanent dimensional change

PREFACE

This Standard was prepared by the Standards Australia Committee MN/7, Refractories and Refractory Materials under the direction of the Multitechnics Standards Policy Board to supersede AS 1774.13—1989.

METHOD

1 SCOPE

This Standard sets out a method for the determination of permanent linear and volume changes of refractories after any or all of the following processes:

- (a) Drying.
- (b) Firing.
- (c) Reheating.

This Standard is applicable to prefired and unfired refractories having either a regular or irregular shape. It is not applicable to carbon-bearing refractories, ceramic fibre products or mortars.

NOTE: Refer to AS 1774.28 for ceramic fibre products and to AS 1774.22 for mortars.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1774	Refractories and refractory materials—Physical test methods
1774.4.1	Part 4.1: Preparation of test pieces—Castable refractories
1774.4.2	Part 4.2: Preparation of test pieces—Low-cement castable refractories
1774.4.3	Part 4.3: Preparation of test pieces—Unshaped refractories on site
1774.4.4	Part 4.4: Preparation of test pieces—Mouldable refractories
1774.4.5	Part 4.5: Preparation of test pieces—Gunning refractories
1774.5	Part 5: The determination of density, porosity and water absorption
1774.22	Part 22: Refractory mortar—Test methods
1774.28	Part 28: Ceramic fibre products—Test methods
1774.30	Part 30: Drying and firing schedules
2243	Safety in laboratories (series)
2780	Refractories and refractory materials—Glossary of terms

