INSPEC International Limited
56 Leslie Hough Way
Salford, Greater Manchester
M6 6AJ, United Kingdom

Tel: +44 (0) 16 1737 0699
Email: equipment@inspec-international.com

Hot solids penetration test equipment

Description

The hot solids penetration test equipment is designed for standards such as those referencing EN168, ISO18526-3 and other eye protection standards that use this test method.



The equipment comprises:

- a special hand-held crucible with integral thermocouple
- an electronic digital thermometer
- a cylindrical steel support tube
- an insulating funnel
- a supply of 6mm ball bearings.

The crucible permits heating of the ball bearing to the required temperature using a suitable heat source, and transportation of the ball bearing for application on to the test specimen mounted in the funnel and support tube assembly.

Services required

Bench mounted.

A small propane burner is suggested for heating the crucible with the ball inside. This should be purchased locally, to ensure a continuing supply of replacement gas cartridges.

The rig is designed to operate in the conditions specified by the relevant standards listed below.

Storage conditions should be restricted to 5 to 35°C and <85%RH.

During testing fumes may be produced from the specimen under test. Appropriate extraction should be installed.

Optional items

None.

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Hot solids penetration test equipment (continued)

Consumables

6mm ball bearings (not supplied separately).

Approximate dimensions and weight

In use a space 500mm x 500mm should be regarded as the minimum needed.
The complete equipment weighs about 1 kg.

Relevant standards

EN standards that utilise the EN168 test method, or similar.
ISO standards that utilise the ISO 18526-3 test method, or similar

This equipment is not appropriate for AS/NZS 1337-1:2010, but we have an alternative model if required. Please contact us for details.