

## Flammability test equipment

### Description

The flammability rig comprises two major assemblies:

An array of six propane gas burners and the means to control the gas supply to them;

A supporting fixture for the test sample, incorporating an electric motor and mechanical drive mechanism, which enable the test sample to be passed through the flame(s) at given range of speeds.

The gas is supplied to each of the burners from a cylinder of propane (not included), via a shut-off valve, flowmeter and manifold. Each burner incorporates its own flow control valve for ambient air. The vertical position of each burner is adjustable, in order to enable setting the required distance from the burner tip to the sample under test.



The supporting fixture for the test sample consists of two arrangements. One is a cast aluminium dummy head, upon which complete masks may be fitted. The other is a finger clamp, which is suitable for securing materials, components, etc. Adjustment is provided so as to enable the sample to be positioned vertically at the correct height above the burners and horizontally to ensure that the sample is located over all of the burners (or just one of them), as specified in the relevant product test standard.

Typically, the rig is operated in either of two modes – with the motor switched off (six burner test and single burner static test) or with the motor speed controller adjusted so that the sample passes through the flame of only one of the burners at a specified speed.

### Optional items

Thermocouple probe and digital electronic thermometer – hand held and battery operated

### Services required

Floor mounted

110/230 volts AC, 50/60Hz, mains electricity

Propane gas with pressure regulator and flashback arrester

Exhaust ventilation system

## Flammability test equipment (continued)

### Approximate size & weight

185 x 80 x 80 cm : 210 kg

### Relevant standards

EN 136:2004, clause 8.5  
EN 140:1998, clause 7.5  
EN 149:2009, clause 8.6  
EN 403:2004, clause 7.10  
EN 405:2009, clause 8.7  
EN 1061:1996, clause 7.4 and figure 2  
EN 1146:2005, clause 7.10  
EN 1827:2009, clause 8.4

EN 12941:2008, clause 7.15 and figure 11  
EN 12942 :2008, clause 7.15 and figure 8  
EN 13274-4 :2001, clauses 6, 7 and 8  
EN 13794:2002, clause 6.18  
EN 14593-1:2005, clause 6.9  
EN 14593-2:2005, clause 6.9  
EN 14594 :2018, clause 6.8  
AS/NZS 1716:2012, appendix C and figure C1



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