

Fire Testing Technology Limited

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ISO 5658/IMO/LIFT Spread Of Flame Apparatus ISO 5658 - IMO Resolution A.653(16) - ASTM E 1317 - ASTM E 1321

The Spread Of Flame Apparatus measures the lateral spread of flame along the surface of a specimen of a product vertically orientated in response to radiative heat in the presence of a pilot flame. It provides data suitable for comparing the performance of essentially flat materials, composites or assemblies, which are used primarily as the exposed surfaces of walls.

This instrument uses a gas-fired radiant heat panel with pilot flame ignition to ignite a test specimen.

Following ignition, any flame front which develops is noted and a record is made of the progression of the flame front horizontally along the length of the specimen in terms of the time it takes to travel to various distances.

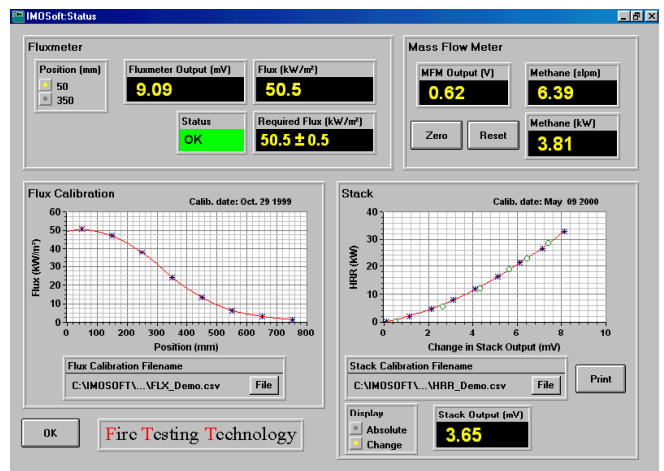
The results are expressed in terms of the flame spread distance/time history, the flame front velocity versus heat flux, the critical heat flux at extinguishment and the average heat for sustained burning.



To meet the IMO specification a stack is fitted complete with thermopile for estimating heat release rate. The apparatus is supplied with all necessary controls, flux meter and specimen holder. The complete test apparatus consists essentially of three main components, a radiant panel support framework and a specimen support framework which are linked together to bring the test specimen into the required configuration in relation to the radiant panel, and the specimen holder, which carries the test specimen. The radiant heater system is fully automatic, with spark ignition and safety interlocks.

The FTT Spread Of Flame Apparatus is a sophisticated instrument and in order to make the calibration and use of the instrument as easy as possible, Fire Testing Technology supplies the IMOSoft software package to complement the instrument. IMOSoft is a Microsoft Windows based application which acquires test data, assists with calibration routines and automatically generates test reports.

FTT is a world leader in fire testing instrumentation and offers a comprehensive spares and maintenance service for fire testing equipment.



Please visit our web-site (www.fire-testing.com) or contact us directly for any further information on our range of fire testing instrumentation.