

THERMOMETRY

SPREAD OF FLAME

ISO 5658-2 | IMO FTP Part 5



SCOPE

Conducting fire tests simulating the lateral spread of flames along specimens exposed to the heat of external fire. Construction products, vehicle parts (ships, trains, motor vehicles) as well as wall coverings and claddings are suitable for testing.

PRINCIPLE

A vertically oriented, conditioned specimen is exposed to a gas powered radiant heater. This is aligned at an angle of 15° parallel to the specimen, so that the heat radiation hits the sample with a different intensity over the surface. Where the largest heat input is, the gases dissolving from the specimen surface are ignited by means of a pilot burner. It is determined how fast and how far the flame spreads sideways over the specimen, and when it goes out.

FEATURES

- Electronic gas controls
- Flame protection devices
- Dipstick

COMPONENTS

- Test frame
- 4 specimen holders, calibration board and dummy board
- 2 backing boards
- Fume stack and line burner according to IMO FTP Part 5
- Control cabinet
- Software MCC DAQ & Spread of Flame ISO 5658-2 / IMO FTP Part 5 (Windows 7/8/10)

DIMENSIONS

Width x Depth x Height: 1760 x 760 x 1970 mm*
Weight: approx 250 kg*

SUPPLIES

- Propane gas, purity > 98 %, inlet pressure 1 bar
- Compressed air, inlet pressure 1 bar
- Water
- Electric voltage 230 VAC 50/60 Hz, 150 VA

TO BE PROVIDED BY THE CUSTOMER

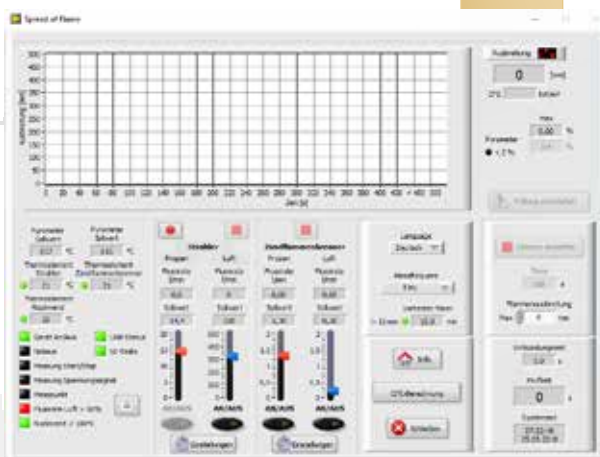
- Fume exhaust according to ISO 5658-2, Capacity > 0,5 m³/s
- Waste water connection (sink adequate)
- 2 calibrated heat flux meters Type Schmidt-Boelter (0 -50 kW/m²) as reference.

SPATIAL REQUIREMENTS

- Room size W x D x H: 3760 x 2800 x 2500 (min. room height) mm
- Room volume > 45 m³
- Floor and walls fireproof

OPTIONAL ACCESSORIES

- PC
- Additional specimen holders
- Additional heat flux meters, upon request calibrated



* Our products are constantly evolving. For this reason, the actual dimensions may differ.

© 01/2021