

Toxicity Analysis Tester

독성 분석 시험기(NF X 70 - 100), TFS-236, NF X 70 - 100, EN 45545-2, EN 50305



Introduction

FESTEC's Toxicity Analysis Tester(NF X 70 - 100) is designed for analyzing the index of Toxic gases(carbon monoxide, hydrogen chloride, bromide, hydrogen cyanide, hydrogen fluoride and sulfur dioxide) for 40 minutes within a tube in the shape of tube with 400°C, 600°C, 800°C temperature.

The most of furnaces is testing under 600°C and some electrical products is testing under 800°C.

FESTEC's Toxicity Analysis Tester is testing the methods of thermal decomposition and gas-pipe steel.

Standard

- NF X 70-100: Fire behaviour tests - Analysis of pyrolysis and combustion gases-Pipe Still method
- BS 6853 : Fire test to wire or Cable used in railway vehicle
- Annex B : Fire test for toxicity on wire or cable
- EN 45545-2 : Railway applications – Fire protection on railway vehicles
- Part 2: Requirements for fire behavior of materials and components.
- EN 50305 : Railway applications – Railway rolling stock cables having special fire performance

Feature

- Test Start : Switch that starts the time of the test.
- Heater Power : Switch that applies power to the Heater.
- Main Power : Power switch.
- Emergency : Switch that shuts off power in case of emergency
- Air On/Off : Switch that provides air supply
- Flowmeter-1: switch that supplies the primary heater.
- Heater Center Temp : Device that measures the center temperature of the heater.
- Control Temp : Device that regulates the temperature of the Heater.
- Test Time : Device that adjusts and measures the time of the test.
- Tube is using fire resistance tube made for resist silicon dioxide for protect from the corrosion gas.
- Purge ON/OFF : Device for adjusting and measuring measurement line.
- Vent On/Off : Vent.
- Center Temp : Thermocouple connector for measuring the center temperature of the heater.
- Control Temp : Thermocouple connector for controlling heater temperature.
- Spare T/C : Extra Thermocouple connector.
- Sampling Diagram : Diagram for sampling measurements.

Test Result

- Reproducibility : a. 600°C and 800°C : $\pm 20\%$ b. 400°C : 30%
- Average Value : Three separate determinations are used to evaluate the product
- Measure the amount of CO₂, CO, HBr, HCl, HCN, HF and SO₂

Specification

Model	TFS-236
Size	1,500 × 450 × 700
Size(Table)	2,000 × 900 × 800
Power	AC 220V, 50/ 60Hz, 15A
Weight	60kg
Exhaust	Min. 3 m ³ /min
Utilities	Compressed Air, Hood, Duct, Dust Collector