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 chlordie, bromide, hydrogen cyanide, hydrogen fluoride and sulfur dioxide) for 40 minutes within a tube in the shape of tube with 400℃, 600℃, 800℃ temperature.
The most of furnaces is testing under 600℃ and some electircal products is testing under 800℃.
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 form the corrosion gas.
- Purge ON/OFF : Device for adujsting 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℃ and 800℃ : ±20% b. 400℃ : 30%
- Average Value : Three separate determinations are used to evaluate the product
- Measure the amount of CO_2, CO, HBr, HCl, HCN, HF and SO_2

Specification

Model	TSF-236
Size	1,500 × 450 × 700
Size(Table)	2,000 ×900 ×800
Power	AC 220V, 50/ 60Hz, 15A
Weight	60kg
Exhaust	Min. 3 ㎥/min
Utilities	Compressed Air, Hood, Duct, Dust Collector