

Smoke Density Chamber

SPECIFICATIONS

Static method based on the principle of reducing the intensity of light passing through space of the smoke chamber filled with smoke arising from thermal decomposition or combustion. The samples are tested in a horizontal position and are thermally stressed by a conical radiator.

MEASURING METHODS

The testing method enables the quantitative measurement of smoke using a light barrier depending on time. ČSN EN ISO 5659-2 Plastics - Smoke generation - Part 2: Determination of optical density in a single chamber. Measurement at a heat flux density of $25 \text{ kW}\cdot\text{m}^{-2}$ and $50 \text{ kW}\cdot\text{m}^{-2}$.



OVERVIEW OF MEASURABLE PARAMETERS / OUTPUT INFORMATION

The method provides information on the maximum density of smoke and its production. The measurement results are given as a specific smoke density. This value provides basic information for predicting the behaviour of test substances in case of fire in an enclosed space.

TYPES OF SAMPLES SUITABLE FOR ANALYSIS / MEASUREMENT CONDITIONS

Solid materials, samples measuring $75 \times 75 \text{ mm}$, with maximum thickness 25 mm . Plastics in the form of plates, foils, granulated material.