Development status of ISO 11057 DIS "Test method for filtration characterization of cleanable filter media" and additional perspectives

Dr. Peter Gaeng
FilTEq
Filtration Testing Equipment & Services GmbH
Amthausstr. 14, D-76227 Karlsruhe, Germany

Abstract

The systematic characterization and evaluation of filter media with respect to their relevant long-time operational properties (filtration- and cleaning-behavior) and emission in addition to their well defined textile properties is still not only a major problem for the developers and manufacturers of filter-media, but also for the producers and users of filter installations.

Therefore there is a demand for improved methods for the characterization and evaluation of cleanable filter media. This demand concerns data allowing statements about the filtration properties of a medium in long-term operation, which exceeds the data supplied by filter media manufacturers about the non-dusted material.

ISO 11057 DIS presents a test method for the comparative characterization of pulse-jet cleanable filter media, to be used in filter elements (e.g. bag filters, pocket filters, cartridge filters) applied in dry gas cleaning under standardized test conditions. These test conditions have been selected among many possible ones and are intended to represent a typical operating mode of such filters so that the test will focus on comparability of different filter media under prescribed standard conditions indicating the operating and separation behavior of various filter media during practical use. The main purpose of testing is to gain information about both, the operational performance and the particle emission of cleanable filter media.

This presentation is covering the main features of ISO 11057 DIS and perspectives for further additional developments based on this standard.