

ISO 22031:2021 (E)

Sampling and test method for cleanable filter media taken from filters of systems in operation

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Sampling of a representative filter element
4.1	General
4.2	Selection of the sampling block in the system
4.2.1	Sampling block
4.2.2	Number of filter elements to be sampled
4.2.3	Sampling time and interval
4.3	Procedure for sampling
4.3.1	General
4.3.2	Preparation
4.3.3	Sampling of filter element
4.3.4	Installation of new fabric filters
4.3.5	Transportation of sampled filter elements to the test lab
5	Test method for the sampled filter fabric
5.1	General
5.2	Appearance inspection
5.3	Photography
5.4	Cutting out of the test specimen
5.5	Testing
5.5.1	General
5.5.2	Tensile strength
5.5.3	Elongation ratio
5.5.4	Air permeability
5.5.5	Observation with a microscope
5.5.6	Optional characteristics for measurement
5.6	Handling of the sampled filter after the test
6	Precautions for handling samples
7	Test report
Annex A	(informative) Analysing filter media damage through fault tree analysis (FTA)
Annex B	(informative) Example of test report
Annex C	(informative) Example of test results