International Standard

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Test dusts for evaluating air cleaning equipment

Poussières d'essai pour l'évaluation des équipements d'épuration d'air

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Foreword

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This document was prepared by Technical Committee ISO/TC 142, *Cleaning equipment for air and other gases,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 195, *Cleaning equipment for air and other gases,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 15957:2015), which has been technically revised.

The main changes are as follows:

— Clause 4, Table 1, addition of test dust L5 Kronos 2160;

— Clause 4, Table 1, addition of the mean diameter for carbon.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Filters are subjected to evaluation of their initial performance and dust-loaded performance in laboratory tests using specified test dusts. The results reflect the performance of the filter as installed in a building. However, since the properties of atmospheric aerosols vary to a large extent regionally, seasonally, and according to weather conditions, test data obtained with a given test dust seldom accurately predict the filter performance as actually used. In addition to this, the test results with a given test dust can differ from those obtained by other laboratories because the filter performance is affected by many factors, for example, particle size distribution, particle agglomeration and electrical charge. Despite these problems in testing filter performance, test data are used for the classification of filters, estimation of energy consumption, life cycle cost (LCC) and life cycle assessment (LCA).

The test dust used for evaluating initial performance and loaded performance of filters can have a different specification from the dust used to achieve filter loading.

This document does not control the specification, manufacturing or use of test dusts. It describes the properties of test dusts which can be used to load filters, and the requirements for test dust generation that will ensure that useful laboratory test results are obtained in order to mimic the actual use as much as possible.