INFORMATION SHEET



Checked and approved by the Quality Manager /direction: Silvio Tinazzi

Proficiency Testing Scheme Asbestos (quantitative) determinated by SEM/EDX

1 PURPOSE OF THE PROFICIENCY TESTING

This scheme allows laboratories to demonstrate their competence to determine the asbestos present in soils with the SEM/EDX technique.

Microanalitica organizes Proficiency Testing in accordance with the International Standard ISO/IEC 17043.

2 DESCRIPTION OF THE PROFICIENCY TESTING

The scheme "Asbestos (quantitative) determinated by SEM/EDX" is offered annually to laboratories. The soil, which can potentially contain asbestos, is taken from soils characterized by the presence of natural asbestos; the soil passing through the 2 mm sieve is homogenized and divided into plastic jars. To verify the homogeneity of the set of samples, the test samples are analyzed and the results are processed statistically according to ISO 13528: 2015.

Each laboratory receives a jar containing about 30 g of soil whose homogeneity has been verified. For analysis, the laboratory can use the method normally used in its laboratory with SEM technique.

3 FINAL REPORT OF THE PROFICIENCY TESTING EVALUATION

To assign the value of Length Weighted Average Geometric Diameter - 2 Standard Errors and average diameter, Micoanalitica Srl follows the instructions contained in paragraph 5.3.1.2 of ISO 13528:2015 which takes into account the results of the participants to calculate the robust average x_{pt} and the robust standard deviation of the test s^* .

The performance of the individual laboratories is evaluated with the z-score calculated according to the expression indicated in ISO 13528: 2015 paragraph 9.4.

Interpretation of the z score:

- |z| ≤ 2,0 indicates "satisfactory" performance and does not generate any signal
- $|z| \le 3.0$ indicates "questionable" performance (warning sign W)
 - |z| > 3.0 indicates "unsatisfactory" performance (allarm signal A)

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4 CONFIDENTIALITY

In order to ensure the confidentiality of the results, the laboratory that participates in Proficiency Testing will be assigned of a number that uniquely identifies it in the PT Final Report.

The identification number is communicated to the email address indicated on Proficiency Testing application form.

Microanalitica Srl guarantees the confidentiality of all the informations acquired by the participants.