



We have been commissioned by the company:

Diresco
Industrieweg Noord, 1134
B-3660 Oudsbergen
Belgium

to determine the percentage by weight of total crystalline silica and respirable crystalline silica ($<10\mu$) on one of their products called **NATURE** (sample received from the Customer on August 28th 2024).

Total crystalline silica was assessed following a 3-hour heat treatment at 550 °C, subsequent grinding and quantitative mineralogical analysis by X-ray diffraction and combined Rietveld-R.I.R. method.

Below is the result obtained, to be referred to the sample tested:

Percentage by weight of total crystalline silica: 3.3 (0.5*)%

The particle size fraction less than ($<10\mu^1$) was concentrated by Appiani sander following heat treatment (3hrs at 550 °C) and fragmentation. Diffractometric analyses were performed following the same protocol used for the assessment of total crystalline silica.

Below is the result obtained, to be referred to the sample tested:

Percentage by weight of respirable crystalline silica ($<10\mu^1$): 2.1(0.5*)%

(¹): the diameter considered ($<10\mu$) is the geometric diameter.

(*): confidence interval of the measurement, i.e., possible error

Legal representative
Dr. Giulio Carpenfo

Modena, September 17th 2024.