

Analitica is a laboratory specialized in mineralogical, chemical and environmental analyses for the georesources, industrial materials, geology and cultural heritage sectors. We study, develop and apply innovative technologies and methodologies for the identification of asbestos, crystalline silica and respirable dust in working environments and in the industrial production of raw and building materials, cosmetics, ceramics, cement, metals & alloys.

ANALYTICAL SERVICES

Mineralogical, petrographic, morphological, chemical and environmental analyses:

- **XRD** X-ray diffraction
- **XRF** wavelength-dispersive X-ray fluorescence
- **PLOM** polarized light optical microscopy
- **PCOM** phase contrast optical microscopy
- **SEM-EDS** scanning electron microscopy and energy-dispersive X-ray microanalysis

RESEARCH and CONSULTING

Analitica provides research and consulting services to laboratories and manufacturing industries, as well as research and scientific divulgation activities in the mineralogical and environmental fields.

We offer solutions for companies and private clients for specific technical issues and optimise the treatment and production processes of minerals and materials.

ON-SITE ACTIVITIES

Analitica provides the service of Asbestos Risk Manager specialized in on-site activities with a focus on asbestos, crystalline silica, total dust and airborne fibres which includes:

- **ENVIRONMENTAL MONITORING**
- **SAMPLING**
- **ROOFING CONDITION ASSESSMENTS**
- **ASBESTOS RISK ASSESSMENTS**

GEOLOGY and ENVIRONMENT

- mineralogical and chemical compositional analysis of rocks, soils, and sediments
- asbestos and crystalline silica risk assessment
- petrographic analysis of rocks in thin section
- detection of asbestos in excavated soil and rock
- particle size and morphological analyses

GEORESOURCES and INDUSTRIAL MATERIALS

- mineralogical analysis of raw materials
- characterization of clays and expandable phases
- quality control in production processes
- characterization of aggregates and identification of potentially alkali-reactive phases
- morphological and compositional studies of particles, surfaces and industrial products
- scientific consulting

ASBESTOS and FIBRES

- analysis for the presence/absence of asbestos
- classification and labelling of man-made vitreous fibres
- counting of total airborne fibres and airborne asbestos fibres
- assessment of the condition and deterioration of asbestos-containing materials

CRYSTALLINE SILICA

- quantification of on-filters crystalline silica
- determination of crystalline silica concentration in bulk samples
- determination of SWFF and SWFFcs parameters (size-weighted fine fraction of crystalline silica)
- analysis of amorphous silica

ENVIRONMENTAL MONITORING

- workplace environmental monitoring and clearance testing for re-occupancy of indoor environments
- chemical risk and asbestos risk assessment
- analysis of atmospheric emissions
- assessment of the condition of roofing materials

CULTURAL HERITAGE

- mineralogical analysis of mortars and artefacts
- petrographic descriptions and microstratigraphic analyses in thin section
- optical microscopy observations in reflected and transmitted light