There are no translations available.

The "Laboratory of Analysis and Characterization of Solids" provides analytical -characterization services mainly for solids materials (e.g. catalysts, solid waste, industrial products, ores). The laboratory has been accredited with ISO 9002 for most of the analytical services that it provides.

## **AVAILABLE SERVICES**

1. Surface morphology observation (magnification	10-300.000) with Scanning
Electron Microscopy (SEM)	
2. Microanalysis (local elemental analysis),	element mapping and linescans with
X-ray EDS	
3. Crystalline phase identification with X-ray	Diffraction
4. Unit Cell Size of Zeolites with X-ray Diffraction	
5. Thermogravimetric Analysis (TGA), Differential	Scanning Calorimetry (DSC)
and Differential Thermal Analysis (DTA) of solid materials	
6. Material Characterization with Temperature	Programmed Methods (TPD-H2,
TPD-NH3, TPO, TPR, pulse chemisorption).	Detection with Mass Spectrometer
(MS)	
7. Elemental analysis of aqueous solutions, inorgai	nic solid materials and
organic materials with Inductively Coupled	Plasma - Atomic Emission Spectroscopy
(ICP-AES)	
8. Surface Area (BET) measurement, Area and Vo	lume of micropores (t-plot
method) and Pore Size Distribution with ni	trogen sorption
9. Pore Volume, Pore Size distribution and Surface	e Area with Mercury
Porosimetry	
10. Particle Size Distribution measurement with	laser diffraction (wet and dry
dispersion methods) and sieving	
11. Milling of Solids	
12. Supported Catalyst Preparation with the Dry	and Wet Impregnation methods