

Total organic carbon/carbon phase analyser

Description/Parameters

Total Organic Carbon (TOC) analyzer in soil, rock, and shale RC612 (LECO) used for a common analysis for determining locations of natural hydrocarbon fossil fuel deposits, quality control of raw building materials, and assessment of soil quality in agriculture. Direct measurement of TOC is difficult due to the unique properties of soil, rock and shale and must be performed using either an acid digestion or temperature dependent differentiation method.

Utilization/Services

The Total organic carbon/carbon phase analyser is optimized for the temperature differentiation analysis of forms of carbon in soil, rock and shale.

- Reference Materials: LCRM, LRM, NIST, or other suitable reference materials.

Analysis Parameters

- Carrier Gas: Oxygen or nitrogen.
- Furnace heating ramp from 5 °C/min to 50 °C/min.
- Catalyst Heater Temp: 850 °C.
- Afterburner Temp: 850 °C.

