Fusion Instrument – Claisse LeNeo

LeNeo fusion instrument prepares glass disks for XRF analysis as well as borate and peroxide solutions for AA and ICP analysis. LeNeo is a versatile instrument providing excellent reproducibility allowing the obtention of high-quality analytical results. Note, only glass disk preparation is currently available in the ESRL.

This automatic electric instrument has one fusion position and a heating chamber that heats up to 1200°C. With fully automated pouring and automatically locking safety doors, LeNeo provides safe cold-to-cold operation. Programmable fusion parameters include: temperature, duration, heating rate, crucible rocking speed, cooling airflow, pouring modes and magnetic stirring. Absolute control of the fusion temperature and the additional parameters optimises oxidation and fusion success.

Samples

The Claisse LeNeo is a sample preparation instrument used to transform powders of cement, lime, catalysts, mining and geological samples, refractories, glass, silica, bauxite, alumina, and many others into either glass disks, borate solutions or peroxide solutions. Samples that carry the risk of explosion or fire are prohibited.

Only geological materials, excluding samples with a large proportion of reduced phases including ores, sulphide rich samples, metals/alloys, or metal-rich samples, are permitted for fusion in the ESRL at present. Sample material should be finely powdered (nominally to <75 µm or to achieve a smooth talc-like feel between gloved fingers) and dry. A sample mass of 1.00g ± 0.005g is required per ESRL standard operating procedure.

Output

Glass disks (40mm diameters) for XRF analysis.