Chemical analysis Laboratory Services – Petroleum Coke and Petroleum Products

Green Petroleum Coke

- **Accredited tests**
  - determination of total moisture
  - determination of volatile matter in accordance with standard ASTM D 3175
  - determination of ash in accordance with standard ASTM D 3174
  - determination of Ca, Fe, Na, Ni, S, Si, and V by wavelength dispersive X-ray fluorescence spectrometry (WD-XRF) in accordance with the standard ASTM D6376

- **Non-accredited tests**
  - determination of “shot”
  - determination of the moltenability index HGI in accordance with standard ASTM D 409
  - determination of particle size distribution in accordance with standard ASTM D 5709
  - determination of gross and net calorific value in accordance with standard ASTM D 5865
  - determination of sulphur (standard ASTM D 5016), C, H and N (standard ASTM D 5373)
  - Determination Al, Ba, Cr, Cu, Ge, K, Mg, Mn, Mo, P, Pb, Sb, Se, Sn, Sr, Ti, and Zn by WD-XRF

Calcined Petroleum Coke

- determination of total moisture
- determination of volatile matter in accordance with standard ASTM D 3175
- determination of ash in accordance with standard ASTM D 3174
- determination of Ca, Fe, Na, Ni, S, Si, and V by wavelength dispersive X-ray fluorescence spectrometry (WD-XRF) in accordance with the standard ASTM D6376
- determination of particle size distribution (by sieving) in accordance with standard ASTM D 5709
- determination of gross and net calorific value in accordance with standard ASTM D 5865
- determination of real density in accordance with the standard ASTM D2638
- determination of particle size distribution by laser diffraction
- determination of dust control material in accordance with standard ASTM D 4930

Naphtas

- determination of Si by ICP-OES (with detection limit lower than 0.025 ppm)

Crude oils and middle distillated petroleum products

- determination of Ag, Al, B, Ba, Ca, Cd, Cr, Cu, Fe, Mg, Mn, Mo, Na, Ni, P, Pb, Si, Ti, V, and Zn by ICP-OES


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