



ScanMin
Africa (Pty) Ltd



ISOTOPE & LOGISTICS SERVICES

Radioactive decay is the process in which an unstable atomic nucleus spontaneously loses energy by emitting ionizing particles and radiation. This decay, or loss of energy, results in an atom of one type. This is a random process on the atomic level, in that it is impossible to predict when a given atom will decay, but given a large number of similar atoms the decay rate, on average, is predictable.

ScanMin Africa (SMA)

Since 2000, ScanMin Africa has been in the business of on-line analyser and up to date supplied more than 61 analysers in the Republic of South Africa. Application includes, coal, iron ore, gold and platinum mining companies. ScanMin Africa specializes in the manufacturing, supply and support of on-line analysers and our local infra-structure is dedicated to quality manufacturing, supply, installation, commissioning and support of on-line analysers.

Excluding the services of supplying, and services of on-line analysers, SMA has gone an extra mile to ensure that its old and new clients are fully serviced and satisfied with service that SMA is offering.

This extra services includes:-

- Supply of the Radioactive Sources (Cf 252 ,AmBe.....),
 - Placing an order on behalf of the client
 - Application for the importing of the source
 - Application for the transportation of the source
- Clearance & transportation
 - Clearing agent in place to clear the source on behalf of SMA at Customs
 - Delivery of the source by Agent to SMA
- Payment of VAT.
- Issue a letter of credit if required by the supplier
- Delivery to site
- Loading the source on to the analyser *-if required*
- Conducting mandatory wipe tests (to ensure there is no leakage)
- Conducting mandatory radiation survey
- Return of the source drum
- Including any other services required by the client

In addition:-

SMA is authorized to import, convey and hold isotopes by the Department of Health and also comply with the Regulation of the Radio Active material.



Drum containing the radioactive source



Surveying the Nita II Elemental Analyser at ScanMin Factory



Radiation survey meter. This is used when survey the area where the analyser is installed and the readings are recorded and analysed.

Online Process Control Specialists

SCANMIN AFRICA'S PRODUCTS

- Nita II Elemental Analyser

- * Bulk Elemental Analyser
- * On belt bulk material analysis
- * Direct measurement of element
 - ** C, H, O₂, Fe, K, Ca...etc.
- * Determination of coal parameters
 - ** Proximate, Ultimate, TM, CV, S

- Moisture Analyser

- * On belt bulk material moisture analyser
- * Capable of operating at:
 - ** High moisture content material
 - ** High microwave attenuation
 - ** High & variable bed depth
- * True continuous moisture measurements
- * Higher performance, low frequency microwave electronics

- Over Size detection System

- * Rapid on-line oversize detection
 - Fully automated
 - Early warning of oversize material on the belt
 - Early warning of equipment failure
 - Screenes and crushers
 - Prevents blockages
 - Cyclones or shoots



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ONLINE PROCESS CONTROL SPECIALISTS