



## More than 40 years' experience in Uranium Process Development

MINTEK, South Africa's national minerals technology organisation, is ideally placed to assist aspiring producers to fast-track new projects into production, both in southern Africa and further afield.

### Our services include:

- Ore evaluation and characterisation;
- Options around ore upgrading via ore sorting, including radiometric sorting;
- Feed preparation, including comminution and flotation;
- Acid and alkaline atmospheric or pressure leaching;
- Solvent extraction (mixer-settlers or Bateman Pulsed Column);
- Ion exchange (fixed bed columns, NIMCIX fluidized bed, or resin-in-pulp); and,
- U<sub>3</sub>O<sub>8</sub> precipitation and refining.

### Recent projects include:

- Langer Heinrich (Paladin Energy), Namibia – metallurgical testwork towards feasibility study;
- Dominion project, South Africa – process development;
- Vaal River Operations, South Africa – South Uranium upgrade;
- Trekkopje (Areva), Namibia;
- Bakouma (UraMin), Central African Republic;
- Valencia (Forsys Metals), Namibia;
- Chirundu joint venture (African Energy Resources/Albidon);
- Rossing South (Extract Resources), Namibia - comminution;
- Omahola (Deep Yellow Ltd), Namibia - physical beneficiation;
- Manyoni (Uranex NL), Tanzania - leaching; and,
- Rossing SK orebody (Rossing Uranium), Namibia - comminution and leaching.

### NNR registration and accreditation

Mintek is registered with South Africa's National Nuclear Regulator (NNR) and the Department of Minerals and Energy, and is authorised to possess and process source material containing up to 100 kg of uranium on site at Mintek. Shipping of samples is arranged through registered transport companies. Mintek has an accredited radiation protection officer (RPO) in terms of the National Nuclear Regulator Act.

### ISO accreditations

Mintek is ISO 9001 (Quality), ISO 14001 (Environment), and OHSAS 18001 (Safety) accredited, while our analytical laboratory is ISO 17025 certified.

**ISO 9001** ■■■■  
QUALITY  
MANAGEMENT SYSTEM

**ISO 14001** ■■■■  
ENVIRONMENTAL  
MANAGEMENT SYSTEM

**ISO 17025** ■■■■  
TESTING AND CALIBRATION  
LABORATORY

**OHSAS 18001** ■■■■  
OCCUPATIONAL HEALTH AND  
SAFETY MANAGEMENT SYSTEM

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**MINTEK**  
A global leader in mineral and  
metallurgical innovation