

WE ARE KROPZ

An explorer, mine developer and miner of fertilizer feed minerals, primarily phosphate.

Kropz's investment into the development of the Elandsfontein project is \$100 million. Elandsfontein is South Africa's largest known sedimentary phosphate deposit, with a current life of mine of 15 years.

Elandsfontein is the world's newest and most innovative phosphate mine, producing up to 1,5Mtpa of 32% phosphate rock from a highly automated processing plant with online analysis and advanced process control.



Kropz

3rd Floor, Matrix Building, 8 Bridgeway Boulevard,
Century City, Cape Town, South Africa

T: +27 21 930 0927 | E: info@kropz.com

www.kropz.com

ELANDSFONTEIN PHOSPHATE PROJECT

○ PORT OF SALDANHA — ROAD
— ELANDSFONTEIN — MINE



Kropz's phosphate rock deposit, Elandsfontein, covers an area of 500ha of 5,000ha of agricultural land on the West Coast of South Africa, 100km north of Cape Town.

The project consists of an open cast mine, a processing plant and associated infrastructure - including bulk power, water supply and an access road.

GEOLOGY

The sedimentary deposit is continuous and well developed, consisting of fine-grained silica sand and apatite grains. The current JORC compliant resource statement supports a total resource of 99.7Mt and 8.04% P₂O₅. The average strip ratio over the current life of mine is 2:1.

MINING

The sandy nature of the ore allows for a free digging operation, where no drilling or blasting is required.

The strip mining will take place in distinct phases, which enables the early commencement of rehabilitation of the mining area.

PROCESSING

The processing plant is designed to process 5Mtpa of run of mine, producing up to 1.5Mtpa saleable concentrate at a grade of 32% P₂O₅.

INFRASTRUCTURE

The project is well positioned for export with the large, natural deep water Port of Saldanha located approximately 43km from the mine via a national freight route. The Saldanha port has confirmed capacity for the export of the phosphate product.

The Saldanha terminal has a maximum draft of 14.5m across its four multi-purpose berths. Loading rates of 10,000 – 12,000 tonnes per day are normal.

Road transport of the product to port increases the reliability of the supply chain. The mine site is 13.5km from the freight route, on a newly constructed surfaced road.

Electricity is supplied to the mine in a simple loop-in loop-out arrangement, connecting an existing 132kV line running to the north of the property.

Raw water for the operation is supplied by the municipality, via a newly constructed pipeline.



PHOSPHATE CONCENTRATE

The following chemical analysis is an average of a number of test work campaigns that have been completed on the Elandsfontein ore, including five bulk runs at Eriez laboratories in the United States.



Acidulation test work was completed at Prayon Technologies in Belgium.

The findings include:

- A 27% P₂O₅ phosphoric acid was easily produced in the attack stage.
- A final 52% P₂O₅ phosphoric acid was produced without any challenges.
- Fast gypsum filtration rates were observed.
- Merchant grade DAP and MAP was produced.
- The final gypsum was tested for radioactivity, and is suitable to be used as a building material.

Phosphate	P ₂ O ₅	%	32.0
Aluminium Oxide	Al ₂ O ₃	%	1.14
Arsenic	As	ppm	10
Cadmium	Cd	ppm	5.0
Calcium Oxide	CaO	%	46.0
Carbon (organic)	C	%	<0.05
Chlorine	Cl	ppm	<50
Chromite	Cr ₂ O ₃	%	0.02
Fluorine	F	%	3.66
Iron Oxide	Fe ₂ O ₃	%	1.67
Lead	Pb	ppm	30
Magnesium Oxide	MgO	%	0.58
Potassium Oxide	K ₂ O	%	0.25
Sodium Oxide	Na ₂ O	%	0.6
Silica	SiO ₂	%	7.0
Thorium	Th	ppm	6.4
Titanium	Ti	ppm	90
Titanium Oxide	TiO ₂	%	0.11
Uranium	U	ppm	30
MER			0.10