



The quality of high purity vanadium pentoxide is now 99.48%.

Speewah is in the East Kimberley region and is the largest vanadium-in-magnetite deposit in Australia with the highest vanadium grade in the magnetite concentrate.

The deposit comprises a measured, indicated and inferred resource of 4.712 billion tonnes at 0.3% vanadium pentoxide, 2% titanium and 14.7% iron.

Hydrometallurgical test work is being carried out by TSW Analytical Pty Ltd, a team of chemists and analysts with experience in the development and assay of high purity products.

Part of vanadium concept study

This forms part of a vanadium concept study into the production of high purity vanadium pentoxide and titanium dioxide products from the Central vanadium deposit at Speewah.

The major objective is to identify a base framework for a new scoping study into the production and marketability of vanadium electrolyte products used in VFBs.

Vanadium product generation test work is trialling selective chemical precipitation methods using various precipitating agents and controlling acidity, redox potential and temperature.

This process is different from other producers that use salt roast technology or solvent extraction methods.

Positive hydrochloric acid leach results

The tests have also produced positive hydrochloric acid leach results of 97-99% vanadium, 95-97% titanium and 96-98% iron leach efficiencies from the vanadium-titanium magnetite concentrate.

Further test work is planned to generate more product, improve recoveries and increase the purity to greater than 99.5% vanadium pentoxide.

King River then plans to use this material for the manufacture of vanadium electrolytes.

With the titanium dioxide tests, the company plans further tests to improve recoveries and increase the grade to 99.9%.

Research is also underway to produce titanium metal sponge.

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The company envisages an open cut mining operation at Speewah based on the high-grade zone of the Central deposit which outcrops and has shallow dipping geometry.

King River is funded to complete the test work and complete the concept and scoping studies.

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