

Altech Chemicals Ltd

13:34 28 Feb 2020

Altech Chemicals demonstrates green credentials of its high purity alumina production process

Altech Chemicals Ltd (ASX:ATC) has undertaken a detailed 'mine to gate' study to compare the greenhouse gas emissions and energy consumption from the industry standard high purity alumina (HPA) production process versus the company's process.

This comes after requests from potential institutional investors and investment banks in Europe for a demonstration of Altech's kaolin-alumina HPA production process.

The current industry standard is to reprocess high grade aluminium metal feedstock by dissolving the metal in alcohol, hydrolysing, then calcining back to alumina.

This is a high energy intensive process as the feedstock is produced via bauxite which is initially processed into smelter grade alumina which is then fed into an aluminium refinery to produce aluminium metal ingots or power.

Current HPA producers cannot use smelter grade alumina to produce HPA due to the sodium impurities that remain from this process and are driven downstream in the production process to purchase high grade aluminium metal as feedstock.

Altech's process

In comparison, Altech's process is direct; it involves the extraction of high purity alumina from a kaolin (alumina silicate) ore feedstock using a hydrochloric acid process, rather than from expensive aluminium metal.

The main advantage of this is that kaolin feedstock is extremely 'clean' with very low levels of iron compared to bauxite which generates large amounts of red mud waste.

Another advantage is that nearly 100% of the hydrochloric acid used in the chemical process is recycled and reused in the process plant and that all heating in the plant uses natural gas as fuel.

The company's HPA plant in Malaysia is also designed to international environmental standards and to satisfy the equator principles for lenders.

Altech's process is estimated at one third to half the cost of the conventional production process.

Price: 0.048

Market Cap: \$41.78 m

1 Year Share Price Graph



Share Information

Code: ATC

Listing: ASX

52 week High Low
0.14 0.023

Sector: Exploration & Production

Website: www.altechchemicals.com

Company Synopsis:

Altech Chemicals Ltd (ASX:ATC) is focused on advancing its high purity alumina (HPA) project in Western Australia.

action@proactiveinvestors.com.au



Figure 2 – Altech’s Kaolin-Alumina Process



Lower carbon footprint

The results of the study are that Altech's process will release 46% less greenhouse gas per tonne of HPA compared to the standard process and will have a comparative carbon footprint of 6.6 tonnes carbon dioxide per tonne of HPA versus 12.3 tonnes carbon dioxide per tonne of HPA.

In addition, Altech's HPA production process will deliver a 41% reduction of energy consumption per tonne of HPA, with estimated energy consumption of 45 gigajoules per tonne of HPA, versus 77 gigajoules per tonne of HPA for the conventional process.

Controlled placement agreement

Altech has entered into a controlled placement agreement (CPA) with Acuity Capital for up to \$10 million of standby equity capital for the period to January 31, 2023.

The company will control if and when the CPA is utilised, the quantum of shares issued, the minimum issue price of shares and the timing of any issue.

Altech also retains full flexibility to use all other methods or arrangements to raise capital whilst the CPA is in place.

Proactive Investors facilitate the largest global investor network across 4 continents in 4 languages. With a team of analysts

journalists & professional investors Proactive produce independent coverage on 1000's of companies across every sector for private investors, private client brokers, fund managers and international investor communities.

Contact us +61 (0)2 9280 0700 action@proactiveinvestors.com.au

No investment advice

The Company is a publisher. You understand and agree that no content published on the Site constitutes a recommendation that any particular security, portfolio of securities, transaction, or investment strategy is suitable or advisable for any specific person. You understand that the Content on the Site is provided for information purposes only, and none of the information contained on the Site constitutes an offer, solicitation or recommendation to buy or sell a security. You understand that the Company receives either monetary or securities compensation for our services. We stand to benefit from any volume which any Content on the Site may generate.

You further understand that none of the information providers or their affiliates will advise you personally concerning the nature, potential, advisability, value, suitability or profitability of any particular security, portfolio of securities, transaction, investment, investment strategy, or other matter.

You understand that the Site may contain opinions from time to time with regard to securities mentioned in other products, including Company-related products, and that those opinions may be different from those obtained by using another product related to the Company. You understand and agree that contributors may write about securities in which they or their firms have a position, and that they may trade such securities for their own account. In cases where the position is held at the time of publication and such position is known to the Company, appropriate disclosure is made. However, you understand and agree that at the time of any transaction that you make, one or more contributors may have a position in the securities written about. You understand that price and other data is supplied by sources believed to be reliable, that the calculations herein are made using such data, and that neither such data nor such calculations are guaranteed by these sources, the Company, the information providers or any other person or entity, and may not be complete or accurate.

From time to time, reference may be made in our marketing materials to prior articles and opinions we have published. These references may be selective, may reference only a portion of an article or recommendation, and are likely not to be current. As markets change continuously, previously published information and data may not be current and should not be relied upon.

The Site does not, and is not intended to, provide investment, tax, accounting, legal or insurance advice, and is not and should not be construed as providing any of the foregoing. You should consult an attorney or other relevant professional regarding your specific legal, tax, investment or other needs as tailored to your specific situation.

In exchange for publishing services rendered by the Company on behalf of Altech Chemicals Ltd named herein, including the promotion by the Company of Altech Chemicals Ltd in any Content on the Site, the Company receives from said issuer annual aggregate cash compensation in the amount up to Twenty Five Thousand dollars (\$25,000).