The Manager Companies - ASX Limited
20 Bridge Street
Sydney NSW 2000

ASX Announcement
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(3 pages)

PRODUCT MARKETING UPDATE

HIGHLIGHTS

SEMICONDUCTOR SECTOR

- **Memorandum of Understanding and Commercial Framework Agreement with a South Korean specialty ceramics company**
  - **Upgrades previous 1,400tpa LOI to 1,700tpa**
  - **Volume upgrade based on strong South Korean memory chip demand and Alpha's zero-alpha emission alumina capability**
  - **Includes additional 9 tonnes sales orders from Stage 1**
- **Asia-based marketing confirms burgeoning semiconductor sector demand**
- **Sector wide interest and first sales for high purity alumina nano-powder**
- **Stage 1 facility now approximately 4 x oversubscribed**
- **Stage 1 sales continue to service Japan, South Korean and EU customers**

Signing of the Memorandum of Understanding and Commercial Framework Agreement

The Board of Alpha HPA Limited (**Alpha** or **the Company**) is pleased to provide an update on product marketing activities for the **HPA First Project**, representing the commercialisation of the Company's proprietary, exclusively licensed solvent extraction and HPA refining technology and production of critical high purity aluminium products into high technology markets. Alpha's ultra-high purity product capability includes:

- High purity aluminas (**HPA**),
- High purity alumina hydroxides (**ATH**),
- High purity aluminium nitrate precursors (**Al-Nitrate**); and
- High purity synthetic sapphire glass

Alpha is in continuous production at its HPA First Project Stage 1, Precursor Production Facility (**Stage 1**) across the Company's full range of high purity aluminium materials and in construction of the full commercial scale **Stage 2** of the HPA First Project. Stage 2 of the HPA First Project will be the world's largest, single site facility for the manufacture of high purity aluminium materials.

Product marketing has continued to validate the ongoing **rapid expansion of the adoption of high-purity alumina materials with the semiconductor supply chain**. Product demand is directly linked to the hyper-scale capital expenditure build-out of AI data centres, and the critical need to adopt HPA materials to manage heat and semiconductor performance

MOU with a Specialty South Korean Ceramics Company for 1,700tpa

Alpha is pleased to advise that the recent Letter of Intent covering 1,400tpa of high purity alumina materials with a specialty South Korean ceramics company has now been upgraded into a more detailed Memorandum of Understanding and Commercial Framework Agreement (**MOU**) covering up to 1,700tpa.

The MOU was signed on the HPA First Project site by the Chairmen of both businesses, and follows the positive test work results across a range of Alpha's high purity materials. The volume upgrade from 1,400tpa to 1,700tpa reflects the burgeoning demand from the South Korean memory semiconductor sector for ultra-high purity alumina materials with a zero-alpha impurity profile (<1ppb Uranium and Thorium).

The MOU signing has been accompanied by a further 9 metric tonnes of sales orders through to the end of CY26 for production scale testing and to service initial commercial volumes for semiconductor end-users.

Asia Marketing and wider Semiconductor Sector Demand

Recent Asia based marketing efforts with both new and existing customers in Japan, South Korean and Taiwan has continued to consolidate very strong semiconductor industry demand for:

- Ultra-high purity alumina materials (>99.995% purity), combined with zero-alpha radiation emission (<1ppb Uranium and Thorium) impurities, for a range of thermal interface materials including thermal fillers and ceramic plates:
    - Alpha is consolidating an accelerated effort from Alpha's existing customers to finalise FY27 supply contracts
    - Alpha's internal demand model for thermal fillers, based on end-user volume demand, reaching 9,000tpa by 2030, without accounting for new entrants of China based demand

- The increasing adoption of high purity alumina as a dominant abrasive in Chemical Mechanical Polishing (CMP) to address the existing industry challenges presented by a range of hard to polish substrates in the most recent generation of advanced semiconductors. Recent highlights include:
    - Confirmed qualification of Alpha's Al-Nitrate within CMP slurries for a leading global memory chip maker, and;
    - Detailed quotations issued to three separate CMP end-users following successful CMP slurry test work
    - Confirmation that the adoption of high purity alumina fillers in packaging (see above), in turn drives adoption for high purity alumina in CMP slurries

- Accelerated adoption of high purity alumina ceramics withing the semiconductor manufacturing environment
    - Strong performance of Alpha's powders in thermal spray coating of semiconductor parts for a key South Korean end-user has now been confirmed. Alpha is preparing detailed quotation for commercial supply
    - Over 20 end-users have now been supplied with Alpha's most recent alumina powders with ultra-high sintering performance, considered ideally suited to this application

Each of these demand points are reflected in:

- Continues aggregation of end-user LOI volumes now reaching 13,780 tonnes pa.
- Alpha receiving and/or issuing 63 individual product orders in August and September to date.
- Very strong interest, including first sales and premium pricing for Alpha's recently developed nano alumina powder (Ultra AAP-DP)
- Stated demand volume for Alpha's materials for FY27 rendering the Stage 1 facility effectively 4 times oversubscribed

Senior executives of Alpha HPA and specialty South Korean ceramics company

This announcement has been approved by the Company's Directors.

For further information, please contact:

Robert Williamson
Managing Director
rwilliamson@alphaHPA.com.au
+61 (0) 407 125 175

Robert Lord
Head of Corporate Development
rlord@alphaHPA.com.au
+61(0) 400 008 553

Rimas Kairaitis
Exec. Director & Chief Commercial Officer
rkairaitis@alphaHPA.com.au
+61 (0) 408 414 474