

勤凱科技股份有限公司

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主要產品

導電銀漿、銀鈹漿、銅漿之研究、開發、設計、製造及銷售

企業沿革

2007年

成立「勤凱科技股份有限公司」
獲得 ISO 9001認證
成功開發應用於被動元件之導電漿，並以自有品牌「ample」行銷國內外各大被動元件製造廠

2008年

開發Antenna使用銀漿

2011年

成功開發太陽能電池片背面鉛漿
遷廠至大發工業區

2013年

股票公開發行

2014年

成功開發微型電感表面電極用低溫銀漿
開發觸控面板導電銀漿
榮獲第16屆金峰獎

2015年

登錄興櫃
榮獲第12屆金炬獎

2017年

獲得ISO 14001認證

企業簡介

勤凱科技成立於2007年6月，為專業導電漿材料製造公司，產品主要應用於被動元件、IC電子封裝、觸控面板及矽晶太陽能電池等。

創辦人曾聰乙董事長擁有化學及材料背景，原任職於被動元件大廠，有感於被動元件中非常重要且關鍵原料之導電漿料均來自於美日等國，台灣完全無掌握如此關鍵之原料技術，於是萌生自行研發的念頭，希望將導電漿料製造技術留在國內。但因研發導電漿料必須與使用者做製程及技術上的討論，若於原任職公司成立部門從事此業務，客戶將與原任職公司係屬競爭對手，無法取得相關之技術，故自行創立勤凱科技股份有限公司，從事專業導電漿料之研發製造及銷售，並以自有品牌「ample」行銷全世界。

國際競爭力

一、經營團隊優異的研發能力

自成立以來即投入被動元件導電漿產品之開發計劃，可靠且經驗豐富的專業經營團隊在材料化學領域資歷深厚，技術均為自行開發，且能因應客戶製程來調整修正產品配方，提昇產品品質以符合客戶需求。

二、快速配合客戶需求，提供客製化產品

國際大廠通常採取產銷分離政策由銷售部門或代理商負責銷售業務，較無法配合客戶製程來調整配方；勤凱科技





Ample Electronic Technology Co., Ltd.

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Products and Solutions

Research, Development, Design, Manufacturing, and Sales of Conductive Ag Paste, Ag-Pd Conductive Paste, and Al Paste

History

2007

Established "Ample Electronic Technology Co., Ltd."
Received ISO 9001 Certificate
Successfully developed the conductive paste that is used in passive components, and sold our products to local and foreign large-scale passive components manufacturers with our self-owned brand "ample"

2008

Developed Ag paste for Antenna

2011

Successfully developed the rear Al paste for solar cells
Relocated to Dafa Industrial Park

2013

Public offering of the Shares

2014

Successfully developed the low-temperature Ag paste for electrode surface of micro inductance
Developed the conductive Ag paste for touchscreen
Awarded the 16th Golden Summit Award

2015

Listed on the Emerging Stock Board
Awarded the 12th Golden Torch Award

2017

Received ISO 14001 Certificate



Introduction

Ample Electronic Technology Co., Ltd., founded in June 2007, is a professional conductive paste manufacturing company. Its products are primarily used in passive components, IC electronic packaging, touchscreen, and silica polymorphs solar cell.

The founder TY Tseng comes from the chemistry and materials background. He served in a large-scale passive component company initially, and he realized that the crucial material, conductive paste, for passive component is all originated from overseas, such as the US and Japan, and Taiwan has no control over the material technology of such importance, which triggered the ideas of independent R&D to keep the conductive paste manufacturing technologies in Taiwan. However, for the reason that the R&D for conductive paste requires discussions on manufacturing procedures and technology, if he set up a department to engage in such business at his former company, the customers would become the competitors to his former company, resulting in the failure in obtaining related technologies; therefore, he founded Ample Electronic Technology Co., Ltd. on his own to engage in the professional R&D, manufacturing, and sales of conductive paste. Ample sells its product worldwide with its self-owned brand "ample."



Export Competitiveness

I. Extraordinary R&D capacity of our operating team

Since the establishment, we have been investing in the development plan regarding the conductive pastes for passive components. Our reliable and qualified professional operating team has extensive experience in the field of materials chemistry, and all our technologies are self-developed. We are able to adjust and modify the product formula according to manufacturing procedures of our customers to improve the products qualification for meeting the requirements of the customers.

擁有模擬客戶端製程設備及產品檢測設備，除確保品質穩定外，更可依客戶製程條件不同，調整適合的製程參數或配方，協助客戶提高生產良率，相較於國際大廠更具有彈性優勢。

三、產品組合全面佈局

勤凱科技除了在被動元件產業占有一定之市佔率，另增加IC電子封裝、觸控面板及矽晶太陽能電池等之導電漿料產品，提昇產品價值。

四、導電漿材料產業進入門檻高

因導電漿材料是電子元件產品關鍵原材料其認證時間長，加上採用新材料可能產生品質問題或瑕疵衍生事後賠償問題之風險，是以一般不會輕易更換供應商，故潛在競爭者進入不易。

營運管理

一、研發管理

新產品研發流程是由市場業務配合客戶端需求，再與研發部門人員共同討論研究，經評估產業需求與產品及技術發展趨勢，由研發專案小組著手產品設計。新產品在經過產品試作、試驗量產等程序及通過可靠度、信賴性試驗及送樣承認後量產。

二、人力資源管理

導入TTQS人才發展品質管理系統，每年依照職能規劃教育訓練，提供各職務所需之職能訓練及觀念性通識教育，提升人力素質及企業競爭力，達成公司永續經營的目標。

三、生產管理

以訂單式的彈性生產為主，配合部分計畫性生產為輔，即時滿足客戶對各產品的需求。

四、企業電子化

本公司採用ERP系統，結合生產、採購、行銷及銷售、研發、人事薪資及人力資源、財務會計等資源規劃系統，讓管理更即時、彈性與便利。但也依職能限制員工的使用權限，健全資訊安全管理的機制。

五、顧客關係管理

本公司與客戶端建立即時性溝通，配合客戶需求開發新產品並即時作產品修正服務，且利用自有設備進行材料開發，以避免產品特性競爭力落後。此外，本公司擁有模擬客戶端製程設備及檢測產品，除確保產品品質穩定外，更可依客戶製程條件不同，調整適合的製程參數或配方，協助提高生產良率。使客戶縮短備料時間、減少備料資金積壓，及享有品質穩定與即時之服務。

社會責任

一、重視兩性平等工作環境

二、環保與工(公)安衛

(一) 每年進行消防安全設備檢修及申報。

(二) 定期參加防火管理人複訓講習訓練班及職業安全衛生教育訓練班。

(三) 通過ISO 14001:2015認證。

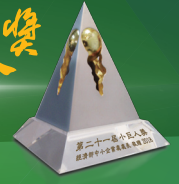
三、與大專院校訂有產學合作合約

四、社會公益參與方面，勤凱科技秉持著取之於社會，用之於社會的回饋理念，每年積極幫助許多弱勢團體，對社福機構定期捐款，為社會盡一份心力。



綜合評語

- 一、以導電銀漿、銀把漿、銅漿之研究、開發、設計、製造及銷售，外銷地區以中國大陸為主，以自有品牌 ample 行銷全球。
- 二、電子漿料產品在被動元件供應鏈中具有關鍵定位，掌握自有關鍵技術，量產品質廣受客戶接受，隨時掌握最新市場資訊。
- 三、贊助法人、家扶中心等多項關懷弱勢家庭之活動，善盡企業公民的責任。



II. Meet the customer requirements rapidly and provide customized products

Large-scale international companies generally adopt production and sales separation policies that the sales department or the distributors shall be responsible for the sales business, causing difficulties in adjusting the formula according to the manufacturing procedures of the customers. However, Ample Electronic Technology possesses equipment that simulates the manufacturing procedures on the customers' end and the product testing equipment, except for ensuring the stable quality, which may further adjust the proper manufacturing procedures parameters or formula according to the various manufacturing procedures and conditions of customers to help improve the yield rate for our customers. Therefore, we have the advantage of flexibility as compared to large-scale international companies.

III. Comprehensive layout for our product portfolio

Ample Electronic Technology has gained a good level of market share. We further added conductive paste product for IC electronic packaging, touchscreen, and silica polymorphs solar cell to our product portfolio to increase the product value.

IV. The conductive paste material industry has a high entry barrier

As conductive paste materials are the crucial raw materials for electronic component products that require a longer time for certification, and that adopting new materials may expose the company to risks regarding the product quality issues or subsequent compensation issues deriving from the defectives, therefore, a company may not change the supplier easily, resulting in the difficulties for potential competitors' entries.

Operation Management

I. R&D management

For the R&D process of our new products, the marketing sales shall discuss with the staff from our R&D department according to the customers' requirements, and the R&D project team shall commence the product design after an evaluation on industry demand and the development trend of products and technologies. The bulk production of our new products shall go through processes of product testing and bulk production trial, and shall be subject to the passage of reliability and credibility tests, and the sample approvals.

II. Human resources management

We have adopted the TTQS (Talent Quality Management System). We provide skills training and general conceptual education that are required for each position according to the job planning education training to improve the labor quality and corporate competitiveness, so as to achieve the target of the sustainable operation.

III. Production management

Our production is the flexible production basing on orders in principal with partial planning production as the complement, meeting the customer requirements on all the products in a timely manner.

IV. E-enterprise

The Company adopts the ERP system, a resource planning system that integrates production, purchase, marketing and sales, R&D, payroll and human resources, and financial accounting, for a more timely, flexible, and convenient management. We also adopt a system that restricts permission for usage according to employees' function to optimize the information security management.

V. Customer Relations Management

The Company conducts real-time communications with its customers to develop new products according to customers' requirements and carry out product modification services in time. We make use of our self-owned equipment for material development to maintain the competitiveness of our product features. In addition, the Company possesses equipment that simulates the manufacturing procedures on the customers' end and the product testing equipment, except for ensuring the stable quality, which may further adjust the proper manufacturing procedures parameters or formula according to the various manufacturing procedures and conditions of customers to help improve the yield rate for our customers, shortening the material preparation time, reducing the fund wasting for material preparation, and allowing the customers to enjoy our timely services with stable quality.

Social Responsibility

I. Attach importance to the working environment with gender equality

II. Environmental protection and work (public) security and hygiene

(I) Conduct fire equipment inspection and repair, and report annually.

(II) Participate the fir manager refreshment lecture and training program, and occupational safety and health education training program regularly.

(III) Passed the ISO 14001:2015 Certificate

III. Entered into contracts with universities and colleges regarding the industry-academy cooperation.

IV. Regarding social welfare participation, Ample Electronic Technology adheres to the concept of return, "what is taken from the society is used in society," actively helps numerous minority groups annually, and makes regular donations to social welfare institutes to make contributions to our society.