



Empowering the Future

ABM and NexPO Partnership

Who are AVOCET MATERIALS GROUP?



Avocet Precision Metals Ltd
Manufacture and distribution



Avocet Battery Materials Ltd
Manufacture of lead tabs



Avocet Research Centre
Research & Development services



Avocet Precision Metals

The UK's leading supplier of foils for new battery technologies

- Distribution of anode, cathode and pouch films.
 - Multiple thicknesses and specifications kept in stock.
- Low-medium volumes in-order to bridge the gap between lab scale and GIGA factory volume requirements.
- High volume distribution through trusted partners.
- Material scientists and metals experts help clients to improve coating performance.
- Unique specifications available upon request.

Avocet Research Centre

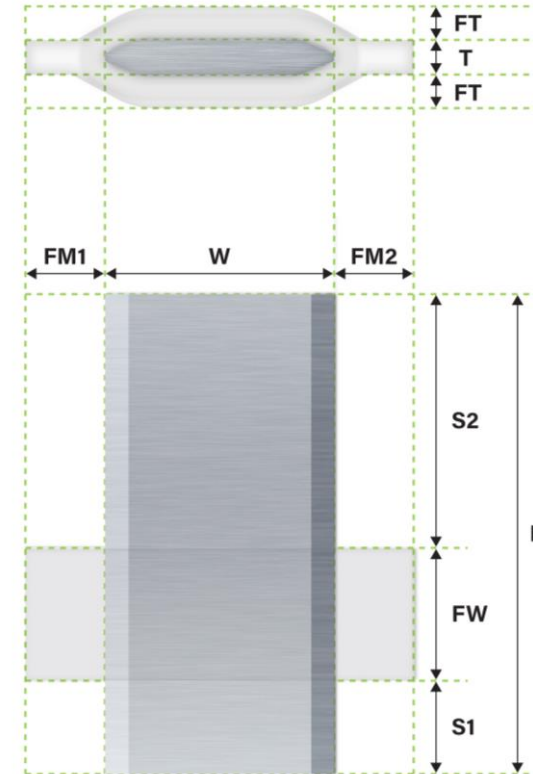
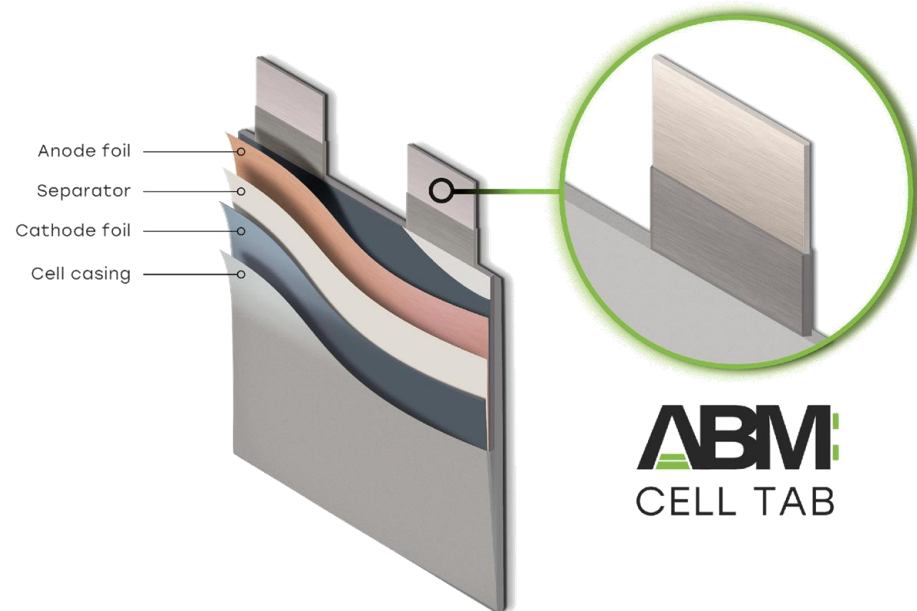
Why choose ARC as your development partner?

- ARC help companies develop their ideas and take them from conceptualisation through to prototyping and scale-up readiness.
- We create a user experience whereby our customers feel like ARC are an extension to their own development team.
- Through a collaborative approach we get to know and understand fully the problems you are facing so that we can propose a tailor-made solution that meets your needs.

ARC: transforming ideas into action.

Avocet Battery Materials

What are lead tabs?



ABM support multiple high-performance industries



Aviation & EVTOL



Motorsport



Wearable Electronics



EV/Automotive



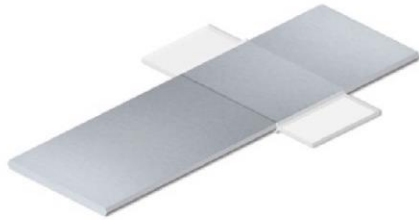
Defence



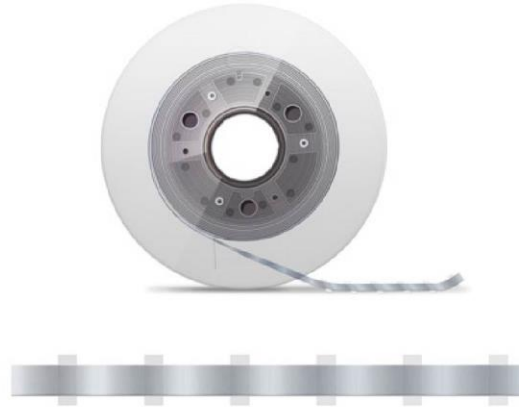
Energy Storage

Types of lead tab manufactured

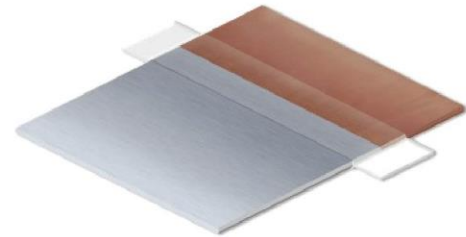
Medium - Large sized

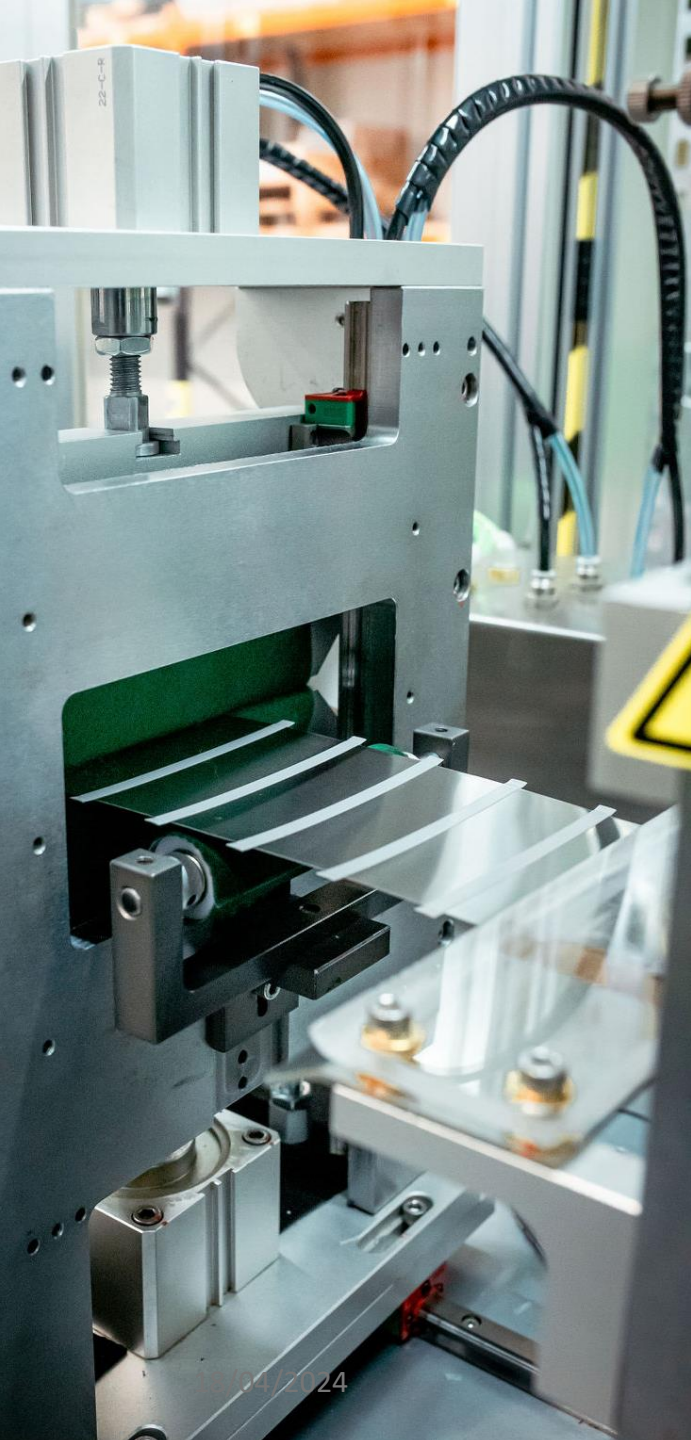


TOR (Tabs on a Reel)



Bi-metallic





ABM have partnered with NexPO

Avocet Battery Materials (ABM) are delighted to announce a partnership through the signing of an MOU with Korean tab manufacturing company NexPO. ABM are a leading battery materials manufacturer located in the UK, servicing EU and US markets with high performance lead tabs for niche applications such as aviation, defence and motorsport. NexPO, whose shareholders include a global battery manufacturer, are one of the largest lead tab producers in the world with factories located in South Korea and China.

This partnership marks a significant milestone for ABM as it enables the expansion of their capacity through OEM production of lead tabs to service large battery customers located in EU and US regions. In addition, details of the MOU state both companies will establish a manufacturing facility in Europe.

ABM + NexPO partnership

- ABM and NexPO have signed an agreement that details:
 - OEM manufacture of ABM tabs at NexPO facility
 - JV company will be formed
 - NexPO production equipment will be used
 - ABM will execute the project from a EU/local perspective
 - JV plant will be located in UK or Europe
 - Timing to be driven by customer demand
 - Demonstrate viable market first





The partnership creates significant benefits to ABM customers

- ABM capacity immediately increases from 1.5M up to 250M sets per year via OEM production.
- Samples for high volume production available now.
- **Demonstrable high-volume** supply, suitable for automotive and ESS applications, via an **IATF accredited OEM partner**.
- **Cost competitive** for ABM clients who require high volume.
- **Local customer service** from the ABM UK facility.
- **Future production localisation** from the joint ABM-NexPO facility.

NexPO Business Overview

Company

- NexPO Corporation (Next Poongsan & Pole)

Establishment / Purpose

- JV completed on Sept 18th, 2023 (Poongsan, Pole, LG EnergySolution)
- To establish supply base for NA/European Customers

Board of Directors

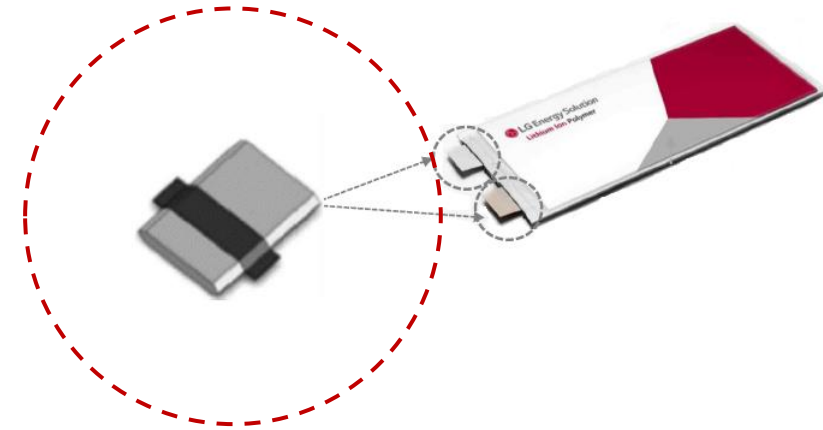
- CEO : Wan Soo Kyung
- Vice President / CFO : Yoon Sik Kim

Type of Business

- Research, Development, Manufacturing and sales of Lead Tab Ass'y, material of Pouch-Type Battery

Address

- 142, Gwahaksaneop 1-ro, Oksan-myeon, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do, Korea



※ Key Component that transmits the current, which is generated by Secondary Battery, to outside of Secondary Battery. (Cathode : Al, Anode : Cu+Ni Plating)

- Electric Vehicle : EV, HEV, PHEV
- Energy Storage : ESS, RSS
- Defensives : PGM, ISR, AEW

History

- JV completed on Sept, 2023 (Poongsan, Pole, LG EnergySolution)
- Dominance Mass Production started on 1Q, 2024
- Mass Production in NA(Canadian Factory) is planned on Year 2026
- European Site is planned on year 2027

Y 2023

- 3way JV completed on Sept
- Poongsan, Pole, LG ES
- ISO, IATF certification completed
- Registration of LGES NA supplier completed
- ABM-NexPO MOU contract completed

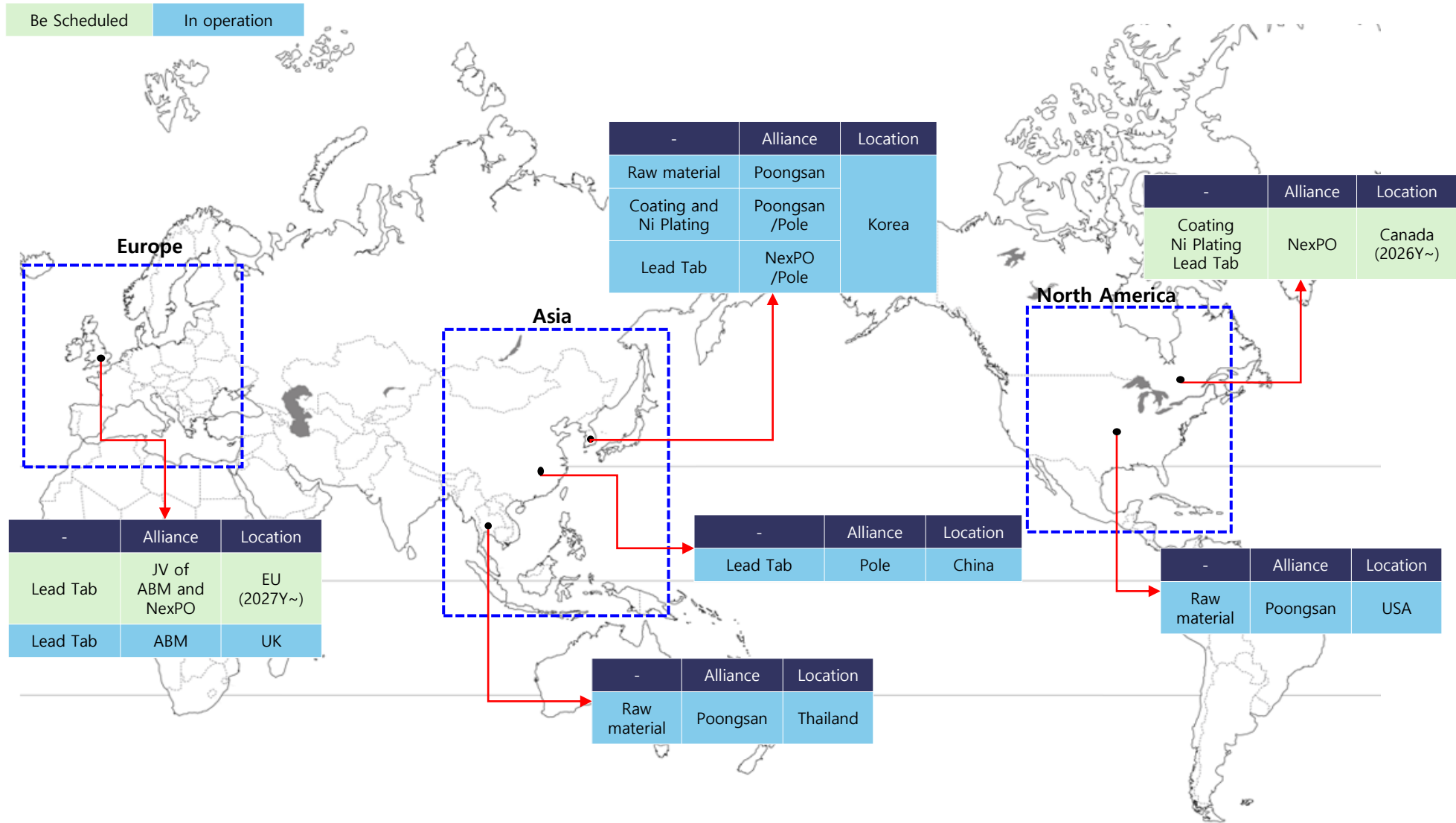
Y 2024

- Started mass production 1Q, NexPO Korea
- Increasing capacity in Korea
- 280 Million Sets per year
- Expansion of volume, LG NA
- Stellantis, Honda, Hyundai, Toyota, GM, ESS, etc.
- Start business with emerging market
- Enertech, Grinergy, etc.

Y 2025 and after

- Beginning of Construction in NA, Y 2025
- Start of Mass Production in NA, Y 2026
- Applying new method facility, Differencing mode.
- Promotion of establishment of European factory, Y 2027

Global NexPO Alliance



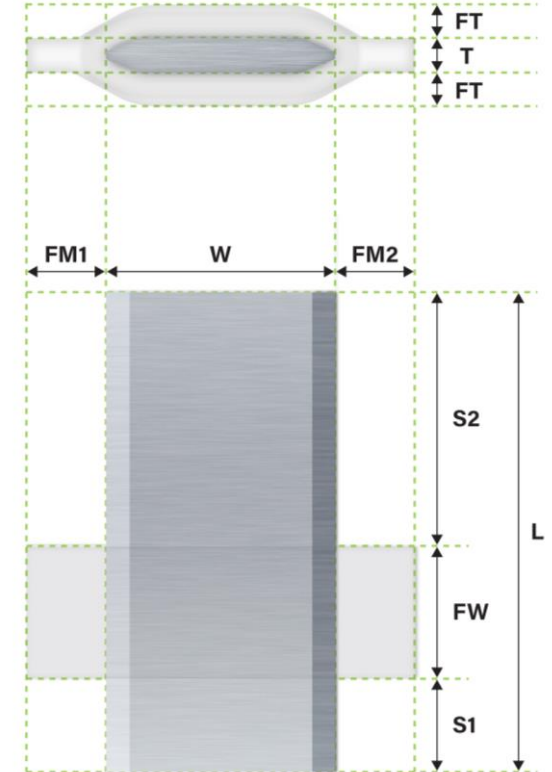
ABM-NexPO tab specification

Small lead tab specification

1. Metal Thickness
Min : 0.05mm
Max : 0.1mm
2. Metal Width
Min : 2mm
Max : 10mm
3. Film Thickness
Min : 50 μ m
Max : 100 μ m

Middle to large lead tab specification

1. Metal Thickness
Min : 0.1mm
Max : 1.2mm
2. Metal Width
Min : 15mm
Max : 100mm
3. Film Thickness
Min : 100 μ m
Max : 250 μ m





Technical support

- **ABM and NexPO quality teams are already aligned.**
 - Local technical support given by ABM team, supported by NexPO.
- **Full suite of testing capabilities and competencies at ABM including:**
 - Laser Induced Breakdown Spectroscopy (LIBS) – elemental analysis and identification
 - Tensile testing
 - Surface roughness
 - Profile finishing
 - Fume cupboards for handling hazardous substances (e.g. battery electrolyte)
 - Digital Microscope (up to X5000)
- **Lead tab quality control tests include:**
 - Accelerated aging in electrolyte (corrosion resistance)
 - Leak testing



“ Create world leading components that drive electrification ”

Contact

sales@avocetmaterials.com

research@avocetmaterials.com

+44 1625 590745

