



Case Study

Manufacturing Industry – Kenya

Polypropylene settler for a battery manufacturing plant in East Africa



Associated Battery Manufacturers (EA) Ltd



Problem Statement

A battery manufacturing plant in East Africa required a settling solution capable of operating reliably in highly acidic, low pH conditions common in battery production and metal processing environments. Traditional metallic settling components were vulnerable to corrosion and accelerated wear due to exposure to aggressive chemical streams containing high sulphate and metal salt concentrations.

Solution

We supplied a custom-designed polypropylene (PP) settler engineered specifically for aggressive, low pH operating conditions. Polypropylene was selected for its excellent chemical resistance and durability in corrosive environments typically associated with copper, nickel, uranium, and battery-related processes.

Key features:

- Corrosion resistance to highly acidic solutions
- Chemical stability in environments with high sulphate and metal salt concentrations
- Robust construction capable of handling abrasive operating conditions
- Enhanced sedimentation efficiency through efficient solids separation design

The system was delivered through our established logistics network, ensuring reliable supply and support across the MEA region.



Performance target

- Withstand harsh chemical conditions
- Minimise maintenance downtime
- Improve separation efficiency
- Provide long-term operational reliability



Result

The polypropylene settler provided the client with a durable and efficient separation solution suited to demanding process conditions.