The Advanced Products Company was founded to help enrich society with high value-added functional materials and products.

The Advanced Products Company was formed by consolidating the Copper & Copper Alloy Division, Electronic Materials & Components Division and Aluminum Division lines under a single company. Rapidly changing market needs and relatively short product life cycles are common to each of these businesses, and by integrating them under the one company we will look to creating a sense of synergy between each to help deliver product proposals that achieve greater levels of customer satisfaction.

The core business areas of the Advanced Products Company include automobiles and other transport equipment, semiconductor manufacturing equipment and other electronics, robotics, industrial machinery, medical devices, infrastructure and other such fields, and each of these fields are expected to grow globally in the future. We help develop growth markets and create a brighter future with our customers through the provision of unique products and services that remain a step ahead of market needs, leveraging our advanced processing technologies, and our knowledge of materials such as nonferrous metals, light metals and ceramics, etc. we have developed over the years, while also flexibly responding to global mega trends.

Correlation diagram of the business structure and product groups in each priority field

1. **Materials**
   - Copper & Copper Alloy
     - Copper strips
     - Bonding materials for headlights (AuSn paste)
     - Heat shield coated film for windshields
   - Electronic Materials & Components
     - Insulating heat-radiating parts (DBA)
     - Temperature sensors
   - Aluminum
     - Large targets for displays
     - Temperature measurement sensor

2. **Automobiles**
   - Terminal conductors for electric vehicles
   - Bonding materials for electric vehicles

3. **Electronics**
   - High performance sealant for CMOS sensors
   - Low-temperature soldering paste for LED substrates

4. **Robotics, industrial machinery, medical devices, infrastructure, etc.**
   - Circuit protection surge absorbers
   - Oil-resistant sealant for control valves

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Where Are These Materials Being Used?
“Look Where Mitsubishi Materials Leaves Its Mark”

Let’s look at some of the flagship automobile products that the Advanced Products Company came up with.

**Aluminum materials for heat exchangers (cooling and air conditioning)**

**Lead-free copper alloy with excellent machinability for control valves (ECO BRASS)**

**High-performance copper alloy for connectors**

**Insulating heat-radiating parts for power semiconductors (DBA substrate with integrated heat sink)**

**Power control unit (PCU)**

**Small-diameter harness (ROX-CPH)**

**Control valves**

**Connector**

**Wire harness**

**Connector materials (MSP5)**

**Battery pack**

**Battery surface temperature sensor**

**Temperature measurement thermistors**

**Heat shield coated film used as the heat shield interlayer**

**Direct coating, film adhesion, etc.**

**Windshield interlayer**

**Automotive window glass**

**Glass**

**Fine particle dispersed film**

**Exterior material (laminated film)**

**PP resin**

**Stretchable nylon**

**Aluminum foil**

**Exterior material (laminated film)**

**Core material**

**Surface material**

**Fin**

**Cooler**

**Cooling system**

**Condenser**

**Evaporator**

**Multi-port tubes**

**Core material**

**Surface material**

**Tube, plate, fin**

**Clad materials**

**To the index finger**

**Around the width of**

**Heat-radiating fin**

**Heat exchanger**

**Condenser**

**Evaporator**

**Heat shield coated film used as the heat shield interlayer**

**Direct coating, film adhesion, etc.**

**Windshield interlayer**

**Automotive window glass**

**Battery pack**

**Battery surface temperature sensor**

**Temperature measurement thermistors**

**Heat shield coated film used as the heat shield interlayer**

**Direct coating, film adhesion, etc.**

**Windshield interlayer**

**Automotive window glass**

**Battery pack**

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