Business Domain and Business Structure

The Toho Titanium Group operates 4 businesses: the Titanium Business that manufactures and sells titanium metal as a base, the Catalyst Business, the Chemicals Business and the New Materials Business. We pursue the unlimited potential of titanium products and their related technologies and will contribute to our customers' product and business development through our business expansion.



Expanding application fields with titanium of stable quality

Main Products





Titanium powde High-purity titanium ingot (round



Operating profit



In our Titanium Business, in addition to titanium sponges and titanium ingots made by melting and casting the sponges, we have a wide range of products such as DC Slab and titanium powder, each with high added value, and their own superior features as a raw material

With high quality and reliable supply, we provide titanium products that satisfy our customers.



Contributing to Value-added Polyolefins

Titanium

Business

Titanium sponge

Titanium ingot

Main Products

Polyolefin catalysts · For PP manufacturing · For PE manufacturing For other olefin polymerization



supports and pharmaceutical intermediates · Magnesium chloride powder Magnesium chloride lump

Raw materials for catalyst

Magnesium chloride powder/Titanium Catalyst raw trichloride mixture

External donor for PP production

Operating profit





In our Catalyst Business, we take advantage of our ability to internally procure titanium tetrachloride and magnesium chloride, which are raw materials for catalysts from the titanium manufacturing process. We develop, manufacture (including outsourced manufacturing), and sell catalysts for the production of polyolefins (PO) such as polypropylene (PP), a plastic product, and polyethylene (PE). We also process and sell magnesium chloride for applications such as catalyst raw material and raw material for pharmaceutical intermediates.



Catalyst

Business

Powder manufacturing technologies supporting the evolution of electronic component materials

New

Materials

Business

Chemicals

Business

Main Products





Jltra-fine nickel powde

High-purity titanium dioxid



FY2022 FY2023 FY2024

In our Chemicals Business, we manufacture and sell high-purity titanium dioxide, ultra-fine nickel powder, and other electronic component materials used in multilayer ceramic capacitors (MLCC), PTC thermistors, and dielectric resonators. In particular, ultra-fine nickel powder is used for the internal electrodes of MLCC, taking advantage of its ability to control particle size and surface condition. We will further refine our powder manufacturing technology with high levels of quality stability to meet growing demand in the markets for telecommunications equipment, in-vehicle electrical components, and electronic equipment.





In recent years, hydrogen has been attracting attention as a next-generation energy source. The porous titanium material (WEBTi) developed by our company is expected to be applied to solid polymer electrolyte membrane (PEM) water electrolysis devices, a type of hydrogen generation device. Our division will work to establish a mass production system to guickly commercialize WEBTi. We will also work on commercializing other new products.