Here we introduce our business divisions which are making active contributions in various fields

Dainichiseika Color & Chemicals Mfg. Co., Ltd., commenced its operation in 1931. In addition to the production of pigments, we began to deliver printing inks to markets and gradually expanded business domains to colorants for polyvinyl chloride and for chemical-based fibers and synthetic fibers. Today, we are contributing to various fields including automobile, building materials and household appliances.

Serving industries with pigments

Pigments Division



We develop, produce, and sell inorganic, organic¹, and prepared pigments for applications including paints, printing inks and information display and recording materials*2.

As one of the world's few comprehensive pigment manufacturers, we make environmentfriendly products that comply with national and international regulations on chemical substances.

Advantages

In addition to our inorganic and organic pigment synthesis technology, we possess a variety of technologies such as micronization and fine-particle control³ as well as surface treatment. We conduct product development and establish sales structures according to customer needs.

Providing an extensive range of useful colorants Specialty Colors Division



We develop, produce, and sell colorants for an array of industries through the application of dispersion and processing technology pioneered with the appearance of synthetic fibers. Primarily we supply the market with products like mass colorants for synthetic fibers^{•4}, pigmented printing agents and colorants for paper and construction materials. We have also expanded into the information display and recording materials² field.

Advantages

By utilizing fine dispersion technology⁵ that disperses pigments at the Nano-level, as well as combining and mixing technologies that we have developed over many years, we create products with a variety of features, colors and properties. We conduct product development and establish production and sales structures that answer our customers' needs, and so have acquired a high market share in a wide range of fields.

Providing colorants for thermoplastic resins Plastic Colors No.1 Division



as an independent resin compound^{*6} manufacturer.

Advantages

We have nine sales branches and five manufacturing sites in Japan, and nine sites and offices in six countries outside Japan. We offer value-added products in response to various needs through our integrated sales, manufacturing, technology and staff departments.

Providing colorants for PVC, fluororesin and various other resins Plastic Colors No.2 Division



high-value-added products.

Advantages

With production equipment that handles a range of resins from pastes to powders and excellent dispersion and processing technology, we utilize our accumulated know-how to meet demand for plastic coloring across various industries.

Providing the coating materials found throughout daily life for industries **Coating Materials Division**



decorative and functional coating materials. automotive and interior construction materials fields.

Advantages

We provide solutions with our accumulated mixing technology and dispersion and processing technology. We specialize in developing customized products of UV and EB curable coating materials, and decorative and functional coating materials.

We develop, produce and sell colorants and functional materials used in a variety of resins, from general-purpose to engineering plastic, and have gained a strong reputation

We supply finished products such as powdered and granulated FPs, and our advanced formulation technology and design capabilities make possible the creation of various colorants and special niche compounds, helping us meet our customers' needs.

We develop, manufacture and sell colorants and functional materials for polyvinyl chloride (PVC), high-performance fluororesin, and thermoplastic and thermosetting resins.

We also use dispersion and processing technology, which enables various plastic compounding methods that present a high degree of difficulty.

Through them, we aim to contribute to customers' efforts to realize highly functional,

We develop, produce, and sell UV and EB curable coating materials^{*7}, as well as

We also provide functional products for the electronics and information materials,

Providing polyurethane and functional resins for industries

Advanced Polymers Division



We develop, produce, and sell polyurethane and colorants, which are widely used in synthetic leather and molded products, coating agents, which impart special properties, and adhesives as well as imide-based resins, one of the most commonly used types of heat-resistant resins.

Through resin synthesis technologies using condensation, addition, and co-polymerization technologies¹⁸, combined with dispersion and processing technology, we produce various functional materials, meeting the needs of customers across a wide range of business from industries and in daily life.

Advantages

• We have a strong record in developing original products through our synthesizing, dispersion and mixing technologies. 2 With production bases in Taiwan, China and the United States, we respond to our

customers' global strategies.

(3) We have achieved high levels of customer satisfaction by integrating sales, production and technology.

Providing chitosan and its derivatives

Chemical BIO Materials Department



Chitosan⁹, made from crab shells, is biocompatible, and so known for being safe, as well as for its antibacterial and moisturizing properties. As such it is used in a wide range of applications. This polymers derived from a natural substance, whose molecular weight is controlled at a high level, is renowned throughout the industry.

We extract the active ingredients from a diversity of marine life and natural products, facilitating commercialization.

Advantages

We have developed a system for integrated production of chitosan starting with the exoskeletons of crabs, which results in a high-quality product. We provide customized products to suit customer needs, and we develop chitin and chitosan derivatives¹⁰ as well.

Providing printing inks for paper media Offset Inks Division



media such as flyers, books, and packaging materials.

Advantages

• Our inks for web offset printing and sheet-fed printing provide a wide range of colors beyond the basic cyan, magenta, yellow, and black (CMYK). 2 The superior sheen of our metallic inks and our designed OP varnishes will improve the presentation of printed materials and add value.

Providing inks and peripheral products for gravure printing Gravure Inks Division



We develop, produce, and sell gravure inks that allow printing on a variety of mediums, leading to business opportunities and new market creation. We also deal in coating agents and flexographic printing inks. We have been developing biomass-derived inks and water-based flexographic printing inks for films that conform to the latest market trend, while conforming to voluntary regulations concerning printing inks for food package.

Advantages

Leveraging the network and knowledge developed in collaboration with a wide range of industries, we offer integrated solutions with specialized inks, coating agents and adhesives, for products ranging from food packaging to building materials.

Glossary

*1 Inorganic, organic

The pigments that give rise to color include inorganic pigments consisting of inorganic substances such as metals and organic pigments consist of organic substances. Dispersion and processing technology is essential as both inorganic and organic pigments are insoluble in water and oil, or are else quite hard to dissolve.

*2 Information display and recording materials

Materials used for LCD color filters, MFP (Multifunctional Printer) toners, inkjet printer inks, etc.

*3 Micronization and fine-particle control

Technology that controls the size and shape of pigment particles to make them best suited for various application

*4 Mass colorants for synthetic fibers

Mass-coloring agents apply color to resins prior to spinning, after which pigmented printing agents are used when making prints on the resulting cloth.

*5 Utilizing fine dispersion technology

A single thread of fiber is extremely fine, and even finer uniformity is required for the application of pigments for mass-coloring agents. Fine dispersion technology is a development of that technology to control the size of the pigments.

*6 Resin compound

Molding materials kneaded with various additives/fillers such as pigments and reinforcing materials into plastic resins

*7 UV and EB curable coating materials

Refers to inks and coating materials that instantly change from liquids to solids as a result of chemical reactions prompted by ultraviolet rays and electron beams.

*8 Condensation, addition, and co-polymerization technologies

These refer to different basic reactions for producing polymers. Copolymerization allows for the polymerization of two or more types of monomers simultaneously, allowing for alteration of the properties that are different from single-component polymers.

We develop, produce and sell functional inks based on offset printing inks, used in paper

We offer seamless solutions for not only printing inks, but also for peripheral equipment and printing materials spanning the pre- and post-print processes.

*9 Chitin and chitosan

Naturally-occurring chitin, found in the shells of crustaceans such as crabs and shrimp as well as other arthropods, is a polysaccharide with a chemical structure similar to cellulose. Chitosan is produced from chitin by alkaline hydrolysis.

*10 Chitosan derivatives

Chemically modified chitosan, which has new functions