MINERAL BASED SOLUTIONS

For Paper and Packaging

North America

IMERYS
COMPREHENSIVE PIGMENT PORTFOLIO

Imerys is the global leader in the supply of high quality white pigments for the world’s paper industry.

With a unique and comprehensive portfolio of kaolins, calcium carbonates and talc, our global customer base is able to receive advanced multi-pigment solutions as filler additive, coating pigment or processing aid.

**Kaolin** is a hydrated aluminum silicate crystalline mineral formed over millions of years by the hydrothermal decomposition or weathering of granite. One of the most abundant minerals on earth, it is characterized by its fine particle shape and chemical inertness. IMERYS is the world's largest producer of high quality kaolin.

**Precipitated Calcium Carbonate** is produced through a chemical reaction process that utilizes calcium oxide (quicklime), water, and carbon dioxide. The reaction produces very pure calcium carbonate crystals and water. The crystals can be tailored to a variety of different shapes and sizes, depending on the specific reaction process used.

**Ground Calcium Carbonate** is composed of the crystalline mineral, calcite, which occurs naturally in the form of chalk, marble or limestone. Chalk is usually fine textured, and varies in color from deposit to deposit. Marble deposits are limestones changed by crystallization under conditions of extreme heat and pressure. In some cases, this natural process yields pure marble of exceptional whiteness.

**Talc** is a hydrated magnesium silicate used in the pulp, paper and board industry as a filler and to control pitch and stickies which clog machines impacting runnability. It is an effective coating agent in rotogravure and offset papers where it improves runnability and the quality of the finished paper. In certain specialty papers such as colored papers and labels, its special properties improve quality and productivity.
Imerys has developed a platform of platy clays from Middle Georgia with large plate diameter and thin crystal dimension that can deliver unique value in a variety of paper grades.

These clays were developed with patented technology and are available in a range of particle sizes and shape factors. Their extreme shapes allow them to interact more effectively with blockier particles such as calcium carbonates in order to provide bulkier structures with optically effective pore sizes, improved coating hold out, better coverage and significant cost savings.

Contour Extreme HS, E-160 HS, E-270 and E-300 are premium fine platy clays developed for a variety of applications. They can work well in single coating LWC applications or can also be used in pre-coat applications when blended with blocky co-pigments. The improved physical coverage can allow papermakers to reduce calendering and thus improve sheet bulk, or apply lower top coat weight.

E-500 and E-800 are premium coarse pigments specifically designed to provide coating coverage and build coating bulk in precoating or low gloss applications. They work especially well when blended with blocky co-pigments such as ground calcium carbonate. The improved coverage can allow papermakers to reduce calendering and thus improve sheet bulk, or apply lower top coat weight.
Customer-Driven
Imerys works actively with customers to develop new and innovative solutions to solve their technical challenges. As a global leader in white minerals, Imerys brings its unique knowledge, technology and unrivaled depth of application expertise to improve the value of our customers' products.

New Product Development
Imerys is continuously creating new and better ways to transform mineral resources into high-performance, solution-driven products.

Environmental Policy
Imerys is committed to being a good neighbor to our environment, and we take this responsibility very seriously. We have adopted the principles of Sustainable Development, which include extensive training programs and considerable investment in environmental performance improvement.