Filtration
High quality filtration is critical for many consumer and life science industries: from beer and wine to sweeteners or edible oils, not to forget blood plasma. Imerys’ filtration solutions are based on naturally occurring minerals with exceptional properties such as low density, chemical inertia, high specific surface area and a high level of porosity. Together with superior technical service, they offer a unique combination of functionalities to design the right filtration substrates, optimize process costs and asset capacity while achieving demanding specifications.

Foundry
The process of melting metal and pouring castings has a long tradition, with origins dating back at least 5,000 years. Today, moulds made of sand, ceramic or metal are widely used to cast precision parts for manufacturing customers, such as automotive, aerospace, agriculture and many others industrial equipment manufacturers. Imerys supplies the foundry industry with high-performance minerals and innovative solutions for moulds and cores in sand and investment casting as well as refractory solutions for both ferrous and non-ferrous foundries.

Iron & Steel
Used in everything from jet engines to surgical instruments and from construction to automotive and building/ infrastructure, steel is one of the most versatile materials. Imerys supports the steel industry with a range of minerals, refractory solutions, and services covering all aspects of liquid steel primary and secondary processes. The main applications served range from safety barriers and lining to continuous flow steel casting fluxes.

Mobile energy
With a unique portfolio of synthetic and natural graphite powders, conductive carbon blacks and custom-designed dispersions, Imerys is the leader in highly conductive carbon-based solutions for mobile energy. Imerys graphite and carbon black products are consistently the high-performance conductive additives of choice for lithium-ion batteries, alkaline batteries, advanced lead-acid batteries, zinc-carbon batteries, fuel cells and battery coatings.

Paints & Coatings
Paints & coatings drive performance through demanding standards of weather durability or corrosion resistance, whilst aesthetics and creating a healthy living environment are of utmost importance. Mastering the optical, mechanical, and rheological properties of its unique minerals portfolio, Imerys provides producers of architectural paints and industrial coatings the ideal multi-functional extender and fillers in water borne, solvent borne and powder paints and coatings.

Paper & Board
Improving productivity, surface and print quality is a main concern of the pulp, paper and board industries. Polymer-free barrier coating is also an emerging trend which will allow paper and board to offer sustainable innovative applications. Imerys offers a unique set of solutions to optimize the paper and board manufacturing process with high-quality and environment-friendly solutions. Its leading positions in all key mineral formulations allow to deliver the properties required by paper and board manufacturers: brightness, gloss, opacity and printability.

Plastics
Imerys’ broad mineral portfolio offers a one stop shop to make daily life plastics stronger, lighter and cost effective. Thanks to their shape, color, particle size and purity, Imerys plastic solutions make excellent reinforcing additives and foaming agents for the production of lightweight automotive parts, domestic appliances, electronic components, PVC pipes and profiles or food packaging. Supporting sustainable lifestyles, mineral solutions allow for longer life and lower fuel consumption for cars or lighter vehicles. The carbon-based solutions are used for their exceptional thermal or electrical conductivity, accompanying the electrification of vehicles.

Refractories
Each refractory application is unique and requires the right solution to face extreme temperatures and harsh physical and chemical conditions. Working in close collaboration with refractory producers, Imerys develops minerals, binders, additives that meet continuous improvement requirements in steelmaking, power generation plants, incinerators, biomass boilers, glass, cement and petrochemicals industries.

Rubber
Imerys offers many functional additives primarily derived from ball clay, calcium carbonate, diatomite, kaolin, mica, talc and wollastonite for rubber applications. Utilized in intermediate and finished products to improve performance and facilitate processing, mineral solutions reduce products’ total manufacturing cost. They are essential components in cables, hoses, membranes, seals and tires used in the automotive, building & construction, medical as well as household goods industries.

Filtration
Diatomite/Perlite
World #1 in diatomite and perlite-based filtration products

Foundry
Andalusite/Bentonite/Chamotte/Fused alumina/Fused zirconia-mullite/Green moulding sand additives/High alumina/Metakaolin/Mica/Molochite/Perlite/Refractory solutions
World #2 in bentonite for metal casting
Europe #1 in monolithic refractories

Iron & Steel
Bauxite/Calcium aluminate flux/Refractory solutions/Wollastonite
World #1 in continuous flow casting
World #1 in alumino-silicate monolithic refractories
World #1 in calcium aluminates for metallurgical fluxes

Mobile energy
Carbon black/Graphite
World #1 in conductive additives for Li-ion batteries
World #1 in graphite for alkaline batteries

Paints & Coatings
Carbonate/Carbon black/Diatomite/Kaolin/Mica/Zirconium based chemicals
World #1 in mica for high performance coatings
World #1 in talc for paints
World #1 in wollastonite for paints and coatings
World #1 in perlite for paints and coatings
European #1 in kaolin for paints and coatings

Paper & Board
Bentonite/Carbonate/FiberLean™/Kaolin/Talc
World #1 in kaolin
World #1 in talc
World #2 in ground calcium carbonate

Plastics
Carbonate/Carbon black/Diatomite/Expanded graphite/Graphite/Kaolin/Mica/Talc/Wollastonite
World #1 in minerals for breathable polymer films
World #1 in talc for plastics
World #1 in wollastonite for plastics

Refractories
Andalusite/Calcium aluminate binders/Chamotte/Clay/Fused aluminum oxides/Fused zirconia/Graphite/Molochite/Mullite
World #1 in high performance calcium aluminate-based binders for refractory applications
World #1 in alumino-silicate minerals for refractories

Rubber
Ball clay/Carbonate/Diatomite/Kaolin/Mica/Talc/Wollastonite
World #1 in talc for the rubber industry
The world leader in mineral-based specialties for industry

The world’s leading provider of mineral-based specialties for industry, Imerys delivers high value-added, functional solutions to a great number of industries, ranging from process manufacturing to consumer goods. The Group draws on its understanding of applications, technological knowledge and expertise in materials science to deliver solutions by benefitting its mineral resources, synthetic minerals, and formulations. Imerys contributes essential properties to customers’ products and their performance, including heat resistance, hardness, conductivity, opacity, durability, purity, lightness, filtration, adsorption, and water repellency. Imerys meets ambitious targets to develop responsibly, focusing on people, the environment, business conduct, and corporate governance.

Abrasives

As the world’s largest producer of fused aluminum oxide based products, Imerys provides the right high-performance macro and micro sized solutions for vitrified, resin-bonded and coated abrasives for all grinding, machining, blasting and cutting applications and for the production of refractory materials. Thanks to their wear resistance and thermal properties, these abrasives are widely used in the form of wheels or stones in the automotive, machinery, metal fabrication, electrical and electronics, building and construction industries.

Electrofused aluminum oxide (corundum)/ Sintered aluminum oxide/Sol Gel aluminum oxide

World #1 in fused minerals for abrasives

Ceramics

From fine dinner plates to stylish bathroom shower trays, the design and quality of ceramics influence many parts of everyone’s daily life. This is why tableware, sanitaryware and tile manufacturers demand the highest standards for functionalities such as whiteness, mechanical strength or dimensional stability. Imerys is the world leader in premium minerals for ceramics, prepared bodies and glazes as well as kiln furniture. The engineered mineral blends are also a key asset for unrivaled quality and high performance products.

Ball clay/Bentonite/Ceramic bodies and glazes/ Chamotte/Engobes/Feldspar/Fused alumina/ Halloysite/Kaolin/Kiln Furniture/ Mica/Pegmatite/ Quartz/Talc/Wollastonite

World #1 in minerals and ceramic bodies for sanitaryware
World #1 in kiln furniture for roof tile production
World #2 in kiln furniture for tableware production
Europe #1 in minerals and ceramic bodies for tableware

Ceramics (Advanced)

Advanced ceramics are used in demanding applications such as electrical fittings, thermal appliances, automotive, aerospace, military and medical industries. From its unique mineral portfolio and mineral processing capabilities, Imerys has engineered industrial solutions covering the specific requirements of customers for technical porcelains, steatites, cordierites, silicon carbide, multilites and alumina ceramics.

Ball clay/Chamotte/Feldspar/Fused alumina/ Fused zirconia/Kaolin/Mullite/Silicon carbide/Talc Alumina porcelain bodies/Cordierite bodies/ Standard prepared bodies/Steatite bodies/ Technical porcelain bodies

World #1 in fused zirconia

Building & Infrastructure

Imerys has developed world-class solutions around the variety of applications, key properties like rapid drying and aesthetics, for the construction and civil engineering industries. Specialty aluminate-based binders, metakaolin, smart fillers and functional additives such as bentonites, perlites and clays are tailored according to end users’ performance expectations. These high performance products meet the exacting needs of key applications, including flooring, cement tiles adhesives and grouts, technical mortars, waterproofing, renders, external insulation, sealing liners, pipes and wastewater, as well as heavy duty concrete, tunneling and mining.

Bentonite/Calcium aluminates binders/Clay/Kaolin/ Graphite/Metakaolin/Perlite/Talc

World #1 in high performance calcium aluminates-based binders

Key brands: Ciment Fonds®, Fondag®, Peramin®, SaviperCoat®, Ternal®