



Protecting from harmful bacteria in our daily lives.

KokinEL™ is an inorganic anti-microbial agent that suppresses the growth of bacteria with anti-microbial function of metallic ions such as Ag⁺, Zn²⁺. KokinEL™ is provided in three types: Masterbatch, Paste and Powder. It contains stabilizer which makes it a superb anti-microbial agent and can be applied in various types of materials and applications. KokinEL™ will protect us from harmful bacteria in our daily lives.



Advantage of KokinEL™

Significant antimicrobial efficacy

KokinEL™ inhibits the growth of bacteria and fungi thanks to its antimicrobial metal ion function, preventing the occurrence of slime, microbiological deterioration and odor.

Long lasting durability of antimicrobial efficacy

Because it includes antimicrobial metal ions which almost never evaporate or dissolve, KokinEL™ has long lasting antimicrobial efficacy.

Superior safety

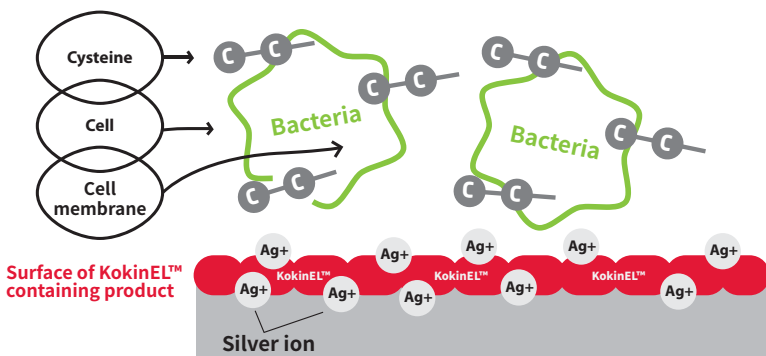
Because it does not contain harmful heavy metals, KokinEL™ is very safe, as has been confirmed by such tests as acute oral toxicity test, primary dermal irritation study, mutagenicity test and skin sensitization study. The components were approved from EPA and FDA.

Superior heat resistance

Being composed of an inorganic substance, KokinEL™ does not break down, even at temperatures of 500°C, so that it can be mixed with almost any resin such as thermoplastic resin and thermosetting resin



Anti-microbial mechanism of KokinEL™



Product Type



Powder Type



Master Batch



Paste type

Applications

With Resin

	Application
Polypropylene (PP)	Kitchen Utensils, Bathroom Articles, Toilet Seats, Food Packaging Materials, Packaging Wrap Films, Air conditioner Filters
Polyethylene (PE)	Chopping Boards , Packaging Wrap Films, Drinking Water Tanks
Acrylonitrile-butadiene styrene (ABS)	Shaver Handles, Cosmetic Compact Cases, Refrigerator Internal Wall Materials, Water Purifier Bodies And Parts
Polystyrene (PS)	Shaver Handles, Freezer Ice-Maker Trays And Refrigerator Food Trays, Sundry Makeup Bottles
Acrylonitrile-styrene (AS)	Razor Cases, Refrigerator Parts, Undry Makeup Bottles
Polycarbonate (PC)	Hair Combs, Refrigerator Parts
Polyacetal (POM)	Kitchen Knife Handles, Writing Materials, Electric Kettle Parts, Pressing Iron Parts, Microphone Parts
Polyester (PET)	Socks, Underwear, Clothing, Pillows, Bonded Textiles
Polybutylene	Toothbrushes, Ink Brushes, Makeup Brushes

With Fabric

	Application
Non-woven	 <p>Various Air filter (For Car, Vacuum cleaner, Air-conditioner, etc)</p>
Woven	 <p>Anti Bacterial Fabrics (for Scrubbers, towels, cloth, etc)</p>

