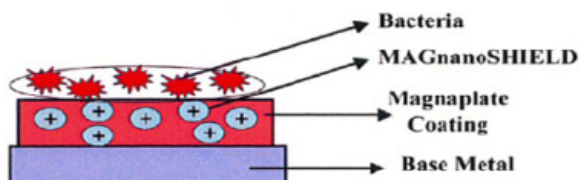


# MAGnanoSHIELD™ Stay C(lean) in Between™ Big Sanitation Protection From Small Particles

Antimicrobial materials based on metal complexes have become an effective weapon in the war against the deadly microbes that cause food-borne illnesses, hospital infections and contaminated drugs. Yet these antimicrobial materials have shown a limited ability to deliver microbe resistance as part of a comprehensive surface enhancement treatment – *until now*.



A new antimicrobial coating technology from our partner General Magnaplate eliminates this limitation by offering microbe resistance in conjunction with other beneficial surface properties. Called MAGnanoSHIELD, this new coating technology can be incorporated into many of our proven surface enhancement coatings. So, it's now possible to specify a single coating that not only resists microbe growth but also provides protection against friction, wear, moisture, chemical exposures and more.



Because MAGnanoSHIELD is incorporated with our existing wear-resistant coatings, it also offers durability and substrate compatibility that earlier antimicrobial materials could not achieve.

**MAGnanoSHIELD provides protection to stay clean in between sanitation cycles.  
Independent laboratory testing proves that MAGnanoSHIELD is effective in eliminating  
the following**

**Types of bacteria tested:**

- Staphylococcus aureus (gram positive)
- E. coli (gram negative)
- L. monocytogenes (gram positive)

**Types of fungus strains:**

- Gliocladium virens ATCC 9645
- Aspergillus niger ATCC 9642
- Penicillium pinophilum ATCC 11797
- Chaetomium globosum ATCC 6205
- Aureobasidium pollulans ATCC 15233



Keep it CLEAN with MAGnanoSHIELD by improving sanitation

- Antimicrobial protection (99,9999% reduction in bacteria and fungus)
- Interferes with DNA replication
- Damages the cell wall of microbes altering cell membrane permeability and / or
- Combines with bacteria proteins located in the cell wall and cytoplasm which interferes with normal cell functions

Keep it LEAN with MAGnanoSHIELD by improving production efficiency

- Reduce chemical cleaning materials
- Reduce maintenance man hours
- Increase production run times
- Reduce water usages

AHC Benelux B.V. –  
Eindhoven / Venlo facilities

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