



Antimicrobial Alloys

Aerospace | Defence | Space



Enhanced Safety Through Antimicrobial Copper Alloys

The global pandemic has led businesses to search for opportunities to create safer products and working environments. Viruses and bacteria can live on plastic and metals for up to 72 hours, thus rendering these a significant risk. Copper alloys such as MB1 and AB2 are known to have strong antimicrobial properties, which destroy 99.0% of the DNA and RNA inside bacteria or viruses.

Buttons, switches, latches, catches, and handles are all applications where such alloys can make a significant difference. Copper does this through its atomic makeup and when a microbe or virus lands on copper, ions blast the pathogen preventing cell respiration.

Benefits of Sylatech's casting process:

- Thin-wall, small or micro castings with a wall thickness as fine as 0.2mm
- Capable of producing lightweight parts as little as 1g
- Castings with high quality surface details and finish
- Rapid prototyping of metal components by utilising 3d printing.

Silicon Brass - MB1

Noted for its corrosion resistance, good tensile strength, and retention of its properties at higher temperatures.



Aluminium Bronze - AB2

Offers high wear resistance in well-lubricated conditions. Silicon aids fluidity during the casting process, increasing tensile strength by approx. 50%.

