



d₂p

d₂p Anti-Microbial Additive

d₂p = Design to Protect *d₂p Anti-Microbial Additive*

Product description

d₂p is an additive system that provides anti-microbial and fungicidal performance.
d₂p is an anti-microbial masterbatch designed for specific applications. The inorganic nature, small particles size and high temperature-tolerance of the active ingredient makes it ideal for use in a wide range of polymer processes.

How does it work?... Silver based biocide

Silver is widely accepted as having broad-spectrum anti-microbial activity. In order to understand why this is so, it is necessary to examine the action of silver ions against microbes.

Stage 1

Silver ions enter micro-organism's membrane and cause damage and disruption to the cellular wall before penetrating the cell.

Stage 2

Silver ions are highly reactive with enzymes and can deactivate vital molecules.

Stage 3

Silver ions interact with the DNA cell and prevent replication.

d₂p Anti-microbial in polymers

d₂p additive has successfully been incorporated into the following polymers:

• PE • PVC • PS • PET • PP

d₂p a successful protection against micro-organisms

d₂p is active on micro-organisms including:

- Methicillin-resistant Staphylococcus aureus (MRSA)
- Candida Albicans
- Aspergillus niger
- E-coli
- PS.Aeruginosa
- Sal.Enteritidis
- Kl.Pneumoniae
- Pe.Funiculosum
- Str.Mutans
- B.cereus

Key benefits of using d₂p - Design to Protect against:

- Cross contamination
- Healthcare and food industries infections
- Staining
- Discoloration
- Odour development

