

## ANTI-MICROBIAL/ ANTI-FUNGAL (S) ADDITIVE

Q.1) What is the base of Anti-Microbial/ Anti-Fungal (S) Additive?

- Anti-Microbial/ Anti-Fungal (S) Additive is based on Metallic silver (Ag)- coated on inorganic fine particles and other additives in polyethylene wax

Q.2) What is the Mechanism of Action?

- Silver acts as a catalyst and disables the enzymes that one celled bacteria and fungi need for their oxygen metabolism. Hence they get suffocated and are destroyed.
- Silver in **Anti-Microbial/Anti-Fungal (S) Additive** exerts an antimicrobial effect on **Bacteria** (Escherichia coli, Salmonella Typhimurium, Staphylococcus Aureus, Klebsiella Pnuemoniae etc.) and **Fungi** (Aspergillus Niger, Penicillium Globosum, Gliocladium Virens, Aureobasidium Pullulans etc.)

Q.3) How is Anti-Microbial Anti-Fungal (S) Additive superior to others?

- **Anti-Microbial/Anti-Fungal (S) Additive** is enriched with metallic silver (Ag)- coated inorganic fine particles and other additives in polyethylene wax

Q.4) Method of Use

- The recommended dosage of **Anti-Microbial/Anti-Fungal (S) additive** in polymers for master batch making is **10%**.
- The recommended dosage of this master batch in the final product is **1-2%**.

Q.5) Can additive addition in the product change its basic properties?

- It will not change the basic properties of the product.

Q.6) What is the shelf life of Anti-Microbial/Anti-Fungal (S) Additive?

- Anti-Microbial/Anti-Fungal (S) Additive has two years of shelf life from the date of manufacture under dry condition of storage at R.T.