

Additive of borchers

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Additives in Materials and Products**

Additives are substances added to materials to enhance their properties or functionality. Here are some examples:

Additive Types

- **Antioxidants:** Prevent oxidation
- **Biocides:** Protect from microorganisms
- **Antiwear additives:** Reduce friction and wear
- **Moisture scavengers:** Absorb moisture

Common Additives

- **Zinc oxide:** Antiwear additive
- **Calcium carbonate:** Filler in plastics
- **Calcium stearate:** Lubricant
- **Titanium dioxide:** UV blocker
- **Polyethylene glycol:** Plasticizer

Uses of Additives

- Improve longevity and performance
- Enhance appearance and aesthetics
- Improve safety and functionality
- Extend shelf life

Additive TI

Additive TI is a moisture scavenger used in polyethylene to prevent moisture absorption and degradation.

Antiwear Additives

- **Zinc dithiophosphate (ZDDP):** The most commonly used antiwear additive
- **Tricresyl phosphate (TCP):** Another antiwear additive
- **Molybdenum disulfide:** Solid lubricant

Moisture Scavengers

Moisture scavengers are chemicals that absorb moisture. The most effective moisture scavenger is **calcium oxide**.

Scavenger Fluid

Scavenger fluid is a chemical solution used to remove moisture from hydraulic systems.

Top Additives to Avoid

- **Butylated hydroxyanisole (BHA)**
- **Butylated hydroxytoluene (BHT)**
- **Propyl gallate**
- **Potassium nitrate**
- **Sodium nitrite**
- **Tartrazine**
- **Blue 1**

Most Popular Additives

- Antioxidants
- Biocides
- Antiwear additives

- Moisture scavengers
- UV blockers

Additives in Polyethylene

- Antioxidants: Prevent oxidation
- UV blockers: Protect from sunlight
- Antistatic agents: Reduce static buildup
- Slip agents: Improve flowability

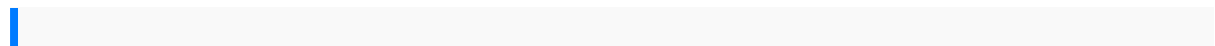
Additives in Polypropylene

- Antioxidants: Prevent oxidation
- UV blockers: Protect from sunlight
- Antiblocking agents: Prevent agglomeration
- Slip agents: Improve flowability
- Nucleating agents: Control crystallization

Additive Manufacturing

Additive manufacturing is a process of creating objects by adding material layer by layer. There are seven main types:

- Stereolithography (SLA)
- Digital Light Processing (DLP)
- Fused Deposition Modeling (FDM)
- Selective Laser Sintering (SLS)
- Multi-Jet Modeling (MJM)
- Laminated Object Manufacturing (LOM)
- Electron Beam Melting (EBM)



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