



## Protective Materials Database

This infrared database contains 772 spectra of polymer additives which include coatings, inhibitors, stabilizers, antioxidants, antistatic agents, and preservatives. It is composed of compounds that are used in the polymer industry as additives.

Coating chemicals make up the majority of the database with 343 spectra and are defined as protective films and the materials used to manufacture these films. Consequently, the coatings industry is a large and important one that involves the development, production and use of nearly every type of chemical compound. Plastics, solvents, many and varied additives and monomeric compounds are among the chief of these coating compounds.

Corrosion inhibitors are used to stop or slow down the corrosion or rust of metals. This database contains 76 spectra of such compounds. They can be added to paints, fuels, coolants, hydraulic fluids, and many other fluids used in industry.

Stabilizers are used to slow the deteriorating effect of light on many materials. UV stabilizers play an important role in polymers by counteracting the effects of the sun. This database includes 156 spectra of these compounds.

Antioxidants are used to counteract the effects of degradation. This database includes 109 spectra of these compounds. Antioxidants can be used at each stage of the polymer life cycle and depend on factors such as compatibility, color and thermal stability, volatility, and stabilizer efficiency.

Antistatic agents are used in the treatment of materials or their surfaces to reduce or eliminate the buildup of static electricity. This database includes 32 spectra of these compounds.

Preservatives are chemicals added to products to prevent decomposition. This decomposition can be by chemical changes or microbial growth. This database includes 56 spectra of these compounds.

Each compound is listed by its chemical name or commercial name. Pertinent physical and chemical data is included when available.



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