



IS 14300 : 1995 NEEM BASED EC CONTAINING AZADIRACHTIN - SPECIFICATION

Azadirachtin, derived from the neem seed of the Indian neem tree [Azadirachta indica A. Juss (Meliaceae)], is one of the prominent biopesticides commercialized and remains the most successful botanical pesticide in agricultural use worldwide. NEEM based EC containing Azadirachtin is used for the control of pests of agricultural crops. It reduces insect feeding and acts as a repellent.

In wake of increasing emphasis on **organic and sustainable farming, use of biopesticides** in place of conventional pesticides are on rise. **Biopesticides are a potential tool in integrated pest management** as they generally pose minimal health or environment risk and can have good compatibility with many beneficial invertebrates.

The standard specifies the requirements and methods of sampling and test for Neem based EC containing Azadirachtin to ensure its **quality, and potency**. These include requirements for constituents, physical properties – like description, Cold Test, **Emulsion Stability and flash point** – and chemical requirements – like Azadirachtin content, aflatoxin content and acidity/alkalinity.

The standard also specifies requirements for packaging material to be used for packing Neem based EC containing Azadirachtin. This standard is crucial for manufacturers, pest control professionals, and regulatory authorities to ensure effective use of Azadirachtin, protecting public health and the environment.