

Dodine WP : IS 13785:1993

***Dodine WP** (Wettable Powder) is a fungicide used to control various fungal diseases in crops, particularly fruit trees. Dodine is a systemic fungicide that works by inhibiting fungal cell division and growth. It specifically targets the germination and growth of fungal spores, effectively preventing them from spreading. It disrupts the function of the fungal cell membrane and the enzymes involved in fungal growth. The active ingredient, **dodine**, inhibits fungal growth by disrupting cell division and spore germination.*

It is effective against diseases like apple scab, brown rot, and powdery mildew on crops such as apples, pears, and peaches. Dodine WP is applied as a foliar spray, typically during disease onset or as a preventative treatment. It is generally safe when used as directed but can cause irritation, so protective gear should be worn during application. Care should be taken to avoid runoff into water sources due to its toxicity to aquatic life.

*The **Indian Standard IS 13785:1993** specifies comprehensive guidelines for Dodine WP, a widely used fungicide. It mandates a formulation containing 65% active dodine, blended with suitable carriers, stabilizers, and formulants to ensure stability and effective suspension in water.*

The powder must be fine, homogeneous, and free of extraneous impurities, achieving a minimum sieving efficiency of 99% for particles under 75 microns and a minimum suspensibility of 70%. Acidity (as H₂SO₄) or alkalinity (as NaOH) must not exceed 0.1% by mass, and wettability should be achieved in under 120 seconds.

Packaging requirements are specific: LDPE bags of at least 0.07 mm thickness, with fluted corrugated cartons for larger packs, ensuring durability during storage and transport.

Sampling protocols in IS 10627:1983 prescribe that testing occurs within 90 days of production to confirm conformity within established tolerance limits, aligned with the Insecticides Act, 1968, ensuring safety and efficacy standards