



PRODUCT INFO
& DATASHEET

SICOBOR B18 (SPD)

SODIUM PENTABORATE DECAHYDRATE

SOLUBLE BORON B18% - 58% B₂O₃ - Na₂B₁₀O₁₆·10H₂O

- Origin: South-America -

1/ GENERAL DESCRIPTION

Sicobor B18 (SPD) is a mild alkaline salt consisting of a fine white powder that is readily soluble in water. It dissolves even in cool water to give supersaturated solutions with high boron concentrations. **Sicobor B18 (SPD)** is a multi-functional product with a general application in both industrial and consumer products. It has a number of different uses in agro-industrial markets, in addition to its long established role in farm sprays. Boron is one of seven micronutrients essential to all plant growth. Boron deficiency has been recognised in a wide range of crops.

2/ CHEMICAL AND PHYSICAL PROPERTIES

B ₂ O ₃	58.0 % min.
Na ₂ O ₃	10.3 % min.
H ₂ O	31.6 % max.

3/ SIEVE SPECIFICATION

Mesh size ASTM No 40 = 2% retained

4/ BULK DENSITY

0.93 ton/m³

pH

PH = 8.4 (1% by weight of solution at 22 dgr. C.)
PH = 6.8 (15% by weight of solution at 22 dgr. C.)

5/ CHARACTERISTICS

Molecular Weight	590.35
Purity like B element	18.0 % min.
Purity like Na ₂ B ₁₀ O ₁₆ ·10H ₂ O	99.5 % min.

6/ PACKING

Sicobor B18 (SPD) is available in 25 kg multiwall paper sacks or 1000 kg big bags.

7/ APPLICATIONS AND BENEFITS

1) AGRICULTURAL

* **Fertiliser:** Plant growth regulator. Foliar applications in case of boron deficiencies. Coating of finished sold fertilisers. Formulate high performance liquids containing either boron alone or a combination of nutrients for spraying, 'fertigation' or irrigation

* **Correcting Boron Deficiency:** It can be remedied by the correct application of a borate containing material in solid or liquid fertilisers, to the seedbed in annual crops or under the foliar canopy of perennial crops. Perennial and annual crops can also be sprayed with boron containing solutions. These are normally tank mixed with other micronutrients or with agrochemical products.

* **Pesticide:** Fungicide, fungi protection targets ants, cockroaches, crickets, silverfish, earwigs, flies, millipedes, centipedes, mold and mildew.

* **pH Adjustment:** An acidic or basic substance used to alter the acidity (pH) of a solution or product.

2) INDUSTRIAL: Isolations / Flame Retardant / Corrosion Inhibition.

3) WOOD PROTECTION: Flame proofing. Prevent wood decay from microbial attack.

4) SOAP/SURFACTANT: Compounds that have surfactant or detergent properties.

5) SOLVENT: Inclusion in multi-element soluble powder formulations for spraying on farm. The amorphous particles of Sicobor B18 facilitate rapid wetting and incorporation in water and move viscous liquids even at low temperatures.

6) DEFOLIANT: Kills leaves on broad leaf plants. Commonly used in cotton production to remove leaves before harvest.

8/ COMPATIBILITY

Sicobor B18 (SPD) is compatible with most agrochemical and liquid fertilisers.

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EVERY TIME THE *right* SOLUTION