PQZ® insecticide protects cotton yield and quality with excellent control of whiteflies, aphids, and fleahoppers in cotton. Pyrifluquinoxazon, the active ingredient in PQZ, causes rapid feeding cessation, and its translaminar activity provides long-lasting protection. PQZ is an excellent rotational option to manage insecticide resistance in spray programs for cotton.

**Key Benefits**
- Protects yield and quality – prevents sticky cotton and bud loss by controlling phloem-feeding insects
- Rapid knockdown and superior control of whiteflies (adults and 1st instar nymphs)
- Effective on controlling aphids resistant to neonicotinoids and pyrethroids
- Active on nymph and adult stages of aphids
- Causes rapid feeding cessation
- Prolonged residual efficacy
- IPM compatible – selectivity to beneficial insects

**Key Pests Controlled**
Whitefly, Aphid, Fleahopper

**Uptake Routes**
PQZ effectively controls insects by direct contact with spray droplets, contact with residues on the surface of the treated plant, and/or by ingestion as the insect feeds on the treated foliage or fruit.

**Translaminar Movement**
- PQZ exhibits translaminar movement within the treated leaves but does not move systemically within the plant.
- Translaminar activity provides control of insects that feed on the underside of the leaf.

**Use Recommendations**
- Use Rate – 2.4 to 3.2 fl oz per acre
  (For fleahopper: 1.6 fl oz; refer to 2ee for use directions)
- Use a minimum of 20 gallons of water per acre by ground application only.

**Use Information**
- Proper application coverage is critical for maximizing pest control.
- Apply with a NIS, MSO, or other approved agricultural spray adjuvant to enhance the translaminar properties of PQZ.
- PQZ rapidly degrades in high pH conditions. Optimal pH is 5-7.
- Group 9B Insecticide – Rotate with different modes of action.
- Reentry Interval – 12 hours
- Preharvest Interval – 7 days
Efficacy of PQZ in Cotton

Efficacy of PQZ on Whitefly in Cotton

Cumulative Post Treatment Adult Whitefly/Leaf

Dr. Peter Ellsworth, UA, Maricopa, AZ, 2017

Cotton Fleahopper in Cotton – Plainview, TX

Fleahoppers per 100 plants

Dr. Suhas Vyavhare, Texas A&M AgriLife Extension, Lubbock, TX, 2019

Silverleaf Whitefly Damage Ratings on Cotton

Damage Rating (0-5)

Dr. Phillip Roberts, UGA, Tifton, GA, 2019

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