

Treating stored grain

The table below provides information on control options available in New Zealand for controlling insect pests in stored grain. Updated July 2025

Product	Active Ingredient	Rate	Structural or grain treatment	Mode of Action Group(s)	Insect species targeted
Smoke treatments					
Grainmaster® Supersmoke®	100 g/kg pirimiphos-methyl 50 g/kg of deltamethrin	1/333 m ²	Structural	1 (organophosphate) + 3 (synthetic pyrethroid)	Saw-toothed grain beetle, Confused Flour Beetle, Cereal Mite, Flour mite, Flat Grain Beetle, rust-red grain beetle
Silo® Smoke	135 g/kg permethrin	1/70 t silo	Structural	3 (synthetic pyrethroid)	Saw-toothed Grain Beetle, Confused Flour Beetle, Flat Grain Beetle
Dust treatments					
Actellic® Dust	20 g/kg pirimiphos-methyl	200 g/t grain	Structural and grain	1 (organophosphate)	Saw-toothed Grain Beetle
Silo® Dust	20 g/kg pirimiphos-methyl	200 g/t grain	Structural and grain	1 (organophosphate)	Saw-toothed Grain Beetle
Silo® Eco	90% inert diatomaceous earth	10 g/m ²	Structural and grain	N/A	Saw-toothed grain beetle, Confused Flour Beetle, Cereal Mite, Flour mite, Flat Grain Beetle
Liquid treatments					
Actellic® 50EC	500 g/L pirimiphos-methyl	8 mL/t grain	Structural and grain	1 (organophosphate)	Saw-toothed grain beetle, Confused Flour Beetle, Cereal Mite, Flour mite, Flat Grain Beetle
Fyfanon® 440EW	440 g/L maldison	18 mL/t grain	Structural and grain	1 (organophosphate)	
Silo® EC	500 g/L pirimiphos-methyl	8 mL/t grain	Structural and grain	1 (organophosphate)	Saw-toothed grain beetle, Confused Flour Beetle, Cereal Mite, Flour mite, Flat Grain Beetle
Fumigants					
Magtoxin	60% magnesium phosphide	Treatment based on silo size. Refer to the label.	Structural and grain	Inorganic phosphorus	