



NORSHIELD 45WG

WINEGRAPES

Latest European technology, first launched in France and Italy in 2017, Norshield 45WG delivers more disease control per gram of copper applied compared to the industry standard Nordox 75WG.

Nordox of Norway have developed this superior technology to meet the future regulatory demands in the European Union.

The most recent European Union regulations (2021) have restricted copper use to an average of 4kg per year of elemental copper. In New Zealand our organic standards restrict use to no more 3kg per year of elemental copper per hectare.

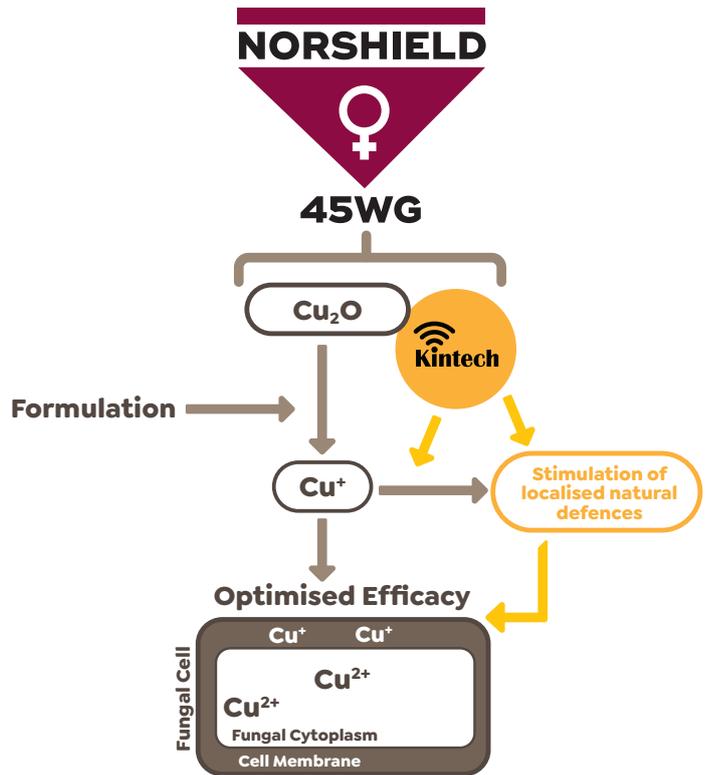
Norshield 45WG lower copper use rates provide growers greater flexibility in their spray program to target disease risk over the whole season.

Enhanced efficacy delivered via new Kintec technology:

- Superior formulation with reduced particle size, increasing availability and activity.
- Organic co-formulants that induce localised natural plant defences known as SAR (Systemic Acquired Resistance).

Proven in New Zealand and Europe to deliver the same level of disease control at 30% (Powdery Mildew and Botrytis) to 40% (Downy Mildew) lower in copper rates.

- Excellent crop safety
- Organic certification
- Lower copper rates
- Excellent handling and mixing



DISEASE	RATE/100L WATER	COMMENTS
Downy mildew, black spot	80-150g	Apply at bud break & continue during pre and post bloom period every 14 days throughout the season as needed. Note: Discontinue if signs of injury are observed.
	160g	Under severe pressure or when Downy mildew has already established to prevent further spread.
Powdery mildew, botrytis, sour rot	80-130g	The control of Sour Rot and the suppression of Powdery Mildew and Botrytis. Full control of Powdery Mildew and Botrytis may not be obtained under very high pressure situations. Apply at 10-14 day intervals throughout the season as required. To stay within the wine industry guidelines of less than 3kg metal copper per ha per season apply no more than 8 applications per season at 0.8kg/ha.

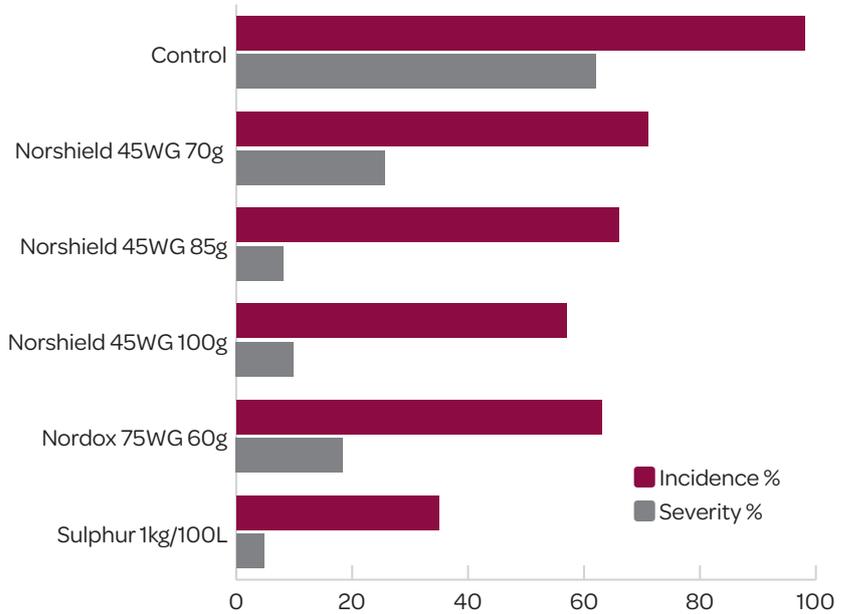
EXAMPLE COMMERCIAL USE RATE COMPARISON

PRODUCT	RATE/100L WATER	RATE/HA @ 600L WATER	COPPER RATE/HA
Nordox 75WG	70g	420g/ha	315 g/ha
Norshield 45WG	80g	480g/ha	216 g/ha
DIFFERENCE			- 32%

RATE COMPARISON TO NORDOX 75WG

Powdery Mildew Grape Trial Nelson 2017 Pinot Noir

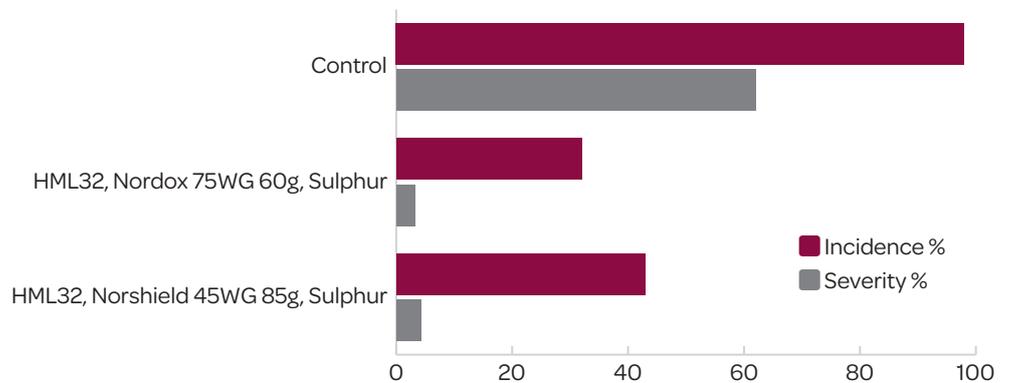
Water volume 500L/ha



COMPATIBILITY WITH HML32

Powdery Mildew Grape Trial Nelson 2017 Pinot Noir

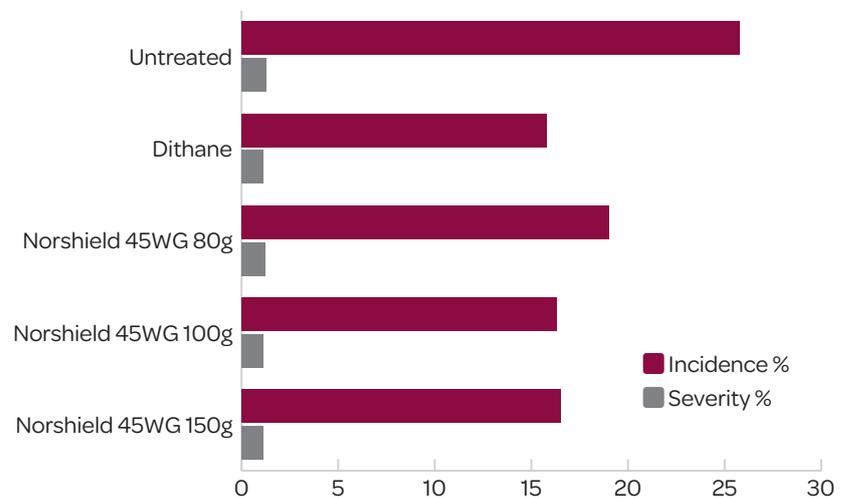
Water volume 500L/ha



DOWNY MILDEW WITH NORSHIELD 45WG

Grape Trial Hawkes Bay 2021, Merlot.

Water volume 600L/ha



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