YAMATO is a broad-spectrum fungicide for the control of a range of stem, leaf and ear diseases in wheat, barley, winter rye and foliar diseases in oilseed rape and sugar beet.

Active Ingredients: 
- Thiophanate-methyl 233 g/L
- Tetraconazole 70 g/L

Dose rates:
- Cereals 1,5—1,75 l/ha
- Oilseed rape 1,75 l/ha
- Sugar beet 1,25 - 1,5 l/ha

Formulation: Suspo-emulsion (SE)

Pack size: 1 L, 5 L, 20 L, 50 L 60 L 200 L
YAMATO can be applied as a one shot treatment between BBCH 29 and 51.

- BBCH 29-31 will be the first spray. In areas with *Septoria Tritici*, a tank mixture with chlorothalonil as a protective contact fungicide is recommended.
- A second spray may follow at BBCH 49-55 to control *Brow and Yellow Rust* and *Powdery Mildew*.
- To control *Ear Fusarium* a spray at BBCH 61 is the earliest reasonable timing.

YAMATO is registered for all treatment times but should be used only once per season.

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**YAMATO—application timing in wheat**

One treatment per season recommended within a spray program

<table>
<thead>
<tr>
<th>Root and stem base diseases</th>
<th>Powdery Mildew, Rust</th>
<th>Ear, Fusarium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powdery Mildew</td>
<td>DTR, Septoria *</td>
<td></td>
</tr>
</tbody>
</table>

**YAMATO**

1,5-1,75 L/ha

*in wheat areas add chlorothalonil and treat before rainfall*
Intensified rape cultivation led to increased infestation with *Sclerotinia sclerotiorum*.

Sclerotinia can cause yield losses of up to 40%.

YAMATO applied during flowering prevents infections on a high economic level.

The recommended application timing of YAMATO is when 50% of the top 3-5 inflorescences are flowering.
YAMATO is a systemic fungicide for the control of *Cercospora* leaf spot that provides three-to-four days systemic curative activity.

YAMATO is best applied at early stage of disease appearance.

**Yamato - application timing in sugar beet**

YAMATO
1.5 L/ha

BBCH 39-45
YAMATO provides a curative and residual action against major leaf diseases.

- Stops the penetration of the fungus into the plant
- Stops the spread of infection within the plant.

This double action approach inhibits the reproduction and further growth of the fungus.

**Tetraconazole**
- Rapidly absorbed and redistributed within the plant
- Protects even new leaves
- Inhibits synthesis of Ergosterol
- Stops the fungus from growing and reproducing in the plant

**Thiophanate-methyl**
- Interrupts cell division and inhibits respiration
- Inhibits development of sperm tubes
- Inhibits penetration into plant tissue and growth of mycelia

The control of leaf diseases is obtained by penetration of the active in the leaf and redistribution throughout the tissue, thereby offering protection on both the upper and lower leaf surfaces. The fungus is killed once it absorbs the fungicide, stopping the infection process.

Finally, the curative action of YAMATO halts the spread of leaf diseases to healthy plant tissue, and the residual activity protects the leaf from new infections.
**YAMATO - DISEASE CONTROL IN WINTER WHEAT**

**Control of Eyespot**

- Yamato 303 SE
  - 1,5 L/ha
  - + Carbendazim 1,0 l/ha

IOR Posnan 2007, PSD Winna Góra 2008

**Control of Powery mildew**

- Yamato 303 SE
  - 1,5 L/ha
  - + Carbentazim 1,0 L/ha

IOR Sosniowice 2007

**3 weeks after application**

- Epoxiconazol

- 85,0

- 63,0

- 84,0

- 76,0

**Control of Septoria tritici**

- Yamato 303 SE
  - 1,5 L/ha
  - + Carbendazim 1,0 l/ha

AR Ponan 2007, ZDD Goryzn, Filia Brody

**4 weeks after application**

- Epoxiconazol

- 87,9

- 75,8

- 88,6

- 83,5

**Control of Brown rust**

- Yamato 303 SE
  - 1,5 L/ha
  - + Carbentazim 1,0 L/ha

AR Ponan 2007, ZDD Goryzn, Filia Brody

**2 weeks after application**

- Epoxiconazol

- 87,2

- 87,2

**Control of stembase Fusarium**

- Yamato 303 SE
  - 1,5 L/ha
  - + Carbendazim 1,0 l/ha

AR Ponan 2007, ZDD Goryzn, Filia Brody
### YAMATO - DISEASE CONTROL IN OILSEED RAPE

#### Table 1: Disease Control in Oilseed Rape

<table>
<thead>
<tr>
<th>Product</th>
<th>Dose rate (l/ha)</th>
<th>Number of infected plants</th>
<th>Control %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td></td>
<td>32,75</td>
<td></td>
</tr>
<tr>
<td><strong>Yamato 303 SE</strong></td>
<td>1,75</td>
<td>5,75</td>
<td>82</td>
</tr>
<tr>
<td>dimoxystrobin + bosalid</td>
<td>0,5</td>
<td>5,0</td>
<td>85</td>
</tr>
<tr>
<td>prothioconazole + tebuconazole</td>
<td>1,0</td>
<td>7,5</td>
<td>77</td>
</tr>
<tr>
<td>azoxystrobin</td>
<td>0,8</td>
<td>7,75</td>
<td>76</td>
</tr>
</tbody>
</table>

#### Table 2: Infection Level

<table>
<thead>
<tr>
<th>Product</th>
<th>Dose rate (l/ha)</th>
<th>Infection level %</th>
<th>Control %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td></td>
<td>1,52</td>
<td></td>
</tr>
<tr>
<td><strong>Yamato 303 SE</strong></td>
<td>1,75</td>
<td>0,17</td>
<td>89</td>
</tr>
<tr>
<td>dimoxystrobin + bosalid</td>
<td>0,5</td>
<td>0,14</td>
<td>91</td>
</tr>
<tr>
<td>prothioconazole + tebuconazole</td>
<td>1,0</td>
<td>0,18</td>
<td>88</td>
</tr>
<tr>
<td>azoxystrobin</td>
<td>0,8</td>
<td>0,19</td>
<td>88</td>
</tr>
</tbody>
</table>

#### Table 3: Infection Level

<table>
<thead>
<tr>
<th>Product</th>
<th>Dose rate (l/ha)</th>
<th>Infection level %</th>
<th>Control %</th>
</tr>
</thead>
<tbody>
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</tr>
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WHY YAMATO?

YAMATO controls effectively key diseases in cereals, oilseed rape and sugar beet

YAMATO is a flexible fungicide with a wide application window

YAMATO is protective and curative

YAMATO with its modern formulation brings 2 active ingredients with different mode of action

YAMATO has a perfect crop safety

YAMATO has a very good rainfastness

Controlled diseases

<table>
<thead>
<tr>
<th>Wheat</th>
<th>Eye spot, Powdery mildew, Fusarium, Septoria, Rust, DTR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley</td>
<td>Powdery mildew, Rynchosporium, Net blotch, Rust</td>
</tr>
<tr>
<td>Rye</td>
<td>Powdery mildew, Rynchosporium, Rust</td>
</tr>
<tr>
<td>Triticale</td>
<td>Powdery mildew, Fusarium, Septoria, Rust</td>
</tr>
<tr>
<td>Oil Seed Rape</td>
<td>Sclerotinia, Alternaria</td>
</tr>
<tr>
<td>Sugar Beet</td>
<td>Cercospora beticola</td>
</tr>
</tbody>
</table>

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