**RANCONA Apex** Seed Treatment is a unique new triazole fungicide with contact and systemic activity, offering excellent crop safety, broad spectrum and higher level disease control and higher yields.

---

### CHEMTURA SEED TREATMENT DISEASE PERFORMANCE COMPARISON CHART

<table>
<thead>
<tr>
<th>Product</th>
<th>Crops</th>
<th>Bunt</th>
<th>Loose Smut</th>
<th>True Loose Smut</th>
<th>Fusarium (Seed-borne)</th>
<th>Fusarium (Soil-borne)</th>
<th>C. Sativus (Seedling Blight)</th>
<th>Common Root Rot</th>
<th>Penicillium (Dry Rot)</th>
<th>Pythium</th>
<th>Aspergillus (Seed Rot)</th>
<th><strong>Features</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>RANCONA™ Apex Fungicide</td>
<td>Wheat, barley, oats, rye, triticale</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>4*</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>Full spectrum superior performing ready-to-use product. Also controls leaf stripe of barley and other diseases.</td>
</tr>
<tr>
<td>Vitaflo® 280 Fungicide</td>
<td>wheat, barley, oats, rye, triticale, peas, lentils, beans, soybeans</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>Proven broad spectrum value offer with good agronomic performance. Controls additional diseases.</td>
</tr>
<tr>
<td>Red® MD Fungicide</td>
<td>Wheat, barley, oats</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Dividend® VI, R1U* Fungicide</td>
<td>wheat, barley, oats, rye, triticale</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Charter® R1U, Seed Treatment Fungicide</td>
<td>Wheat, barley, oats</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Armour® Seed Treatment Fungicide</td>
<td>Wheat, barley, oats</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Genesis® Seed Treatment Fungicide</td>
<td>Wheat, barley, oats</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Dividend® XL, R1U* Fungicide</td>
<td>wheat, barley, oats</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Dividend® XL RTU® Fungicide</td>
<td>wheat, barley, oats</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Dividend® XL RTA® Fungicide</td>
<td>wheat, barley, oats</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Dividend® XL RTA® Fungicide</td>
<td>wheat, barley, oats</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Dividend® XL RTA® Fungicide</td>
<td>wheat, barley, oats</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Dividend® XL RTA® Fungicide</td>
<td>wheat, barley, oats</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

1 = Exceptional Control  
2 = Control  
3 = Suppression  
4 = Not labeled  
*RANCONA Apex may be tank mix with metalaxyl containing products as per label directions for pythium control

---

**Notes:**

Read the label of each product for full information on disease claims of each product.

Ratings based on label claims or on research results.

(a) Fusarium & C. sativus may cause seed rot, seedling blight or other symptoms - compare labels for actual control or suppression.

(b) Vitaflo 280 - 330 mL/100 kg. application rate.

(c) Dividend XL RTA: 325 mL/100 kg of seed rate. Other Dividend products have similar disease ratings.

This table is a summary comparison only. There are many aspects to seed treatment disease control, such as control of seed borne versus both seed & soil borne disease; or control of control of specific symptoms such as seed rot, damping off, seedling blight, crown rot and foot rot. Application rates may significantly affect performance. Compare labels carefully to see which seed treatment and which rate provides the needed control of the disease, source and symptom. Chemtura strives to identify specific diseases and symptoms controlled or suppressed through the use of our products so users can be assured of the performance to expect.
**RANCONA IS UNIQUE**

*RANCONA* Apex is an exciting and unique new triazole seed treatment fungicide with contact and systemic activity, making it more potent for disease control. *RANCONA* Apex is has a novel micro-dispersion formulation, making it very easy to use and offering industry leading crop-safety. This unique formulation offers a number of key benefits:

- **Ease of application even at low temperatures**
- **Exceptional seed flow**
- **Significantly reduced seed dust off.**
- **Less treater build-up, easier clean-up and quicker return to the field.**
- **Low Application Rate – Potently Active**

**RANCONA Apex** is an exciting and unique new triazole seed treatment fungicide with contact and systemic activity, making it more potent for disease control. *RANCONA* Apex is has a novel micro-dispersion formulation, making it very easy to use and offering industry leading crop-safety. This unique formulation offers a number of key benefits:

- **Ease of application even at low temperatures**
- **Exceptional seed flow**
- **Significantly reduced seed dust off.**
- **Less treater build-up, easier clean-up and quicker return to the field.**
- **Low Application Rate – Potently Active**

**RANCONA Apex** provides faster emergence, increased stands, and healthier, more vigorous plants, all of which add up to higher yields and greater profits.

**YIELD BUSHELS / ACRE ON BARLEY AND WHEAT**

- **Barley**
- **Wheat**
- **Bushel Increase Over Uncoated**
- **RANCONA Apex**

<table>
<thead>
<tr>
<th>Varieties</th>
<th>Uncoated</th>
<th>Dividend X 100%</th>
<th>RAX™</th>
<th>RANCONA Apex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley</td>
<td>32.4</td>
<td>41.6</td>
<td>47.4</td>
<td>58.6</td>
</tr>
<tr>
<td>Wheat</td>
<td>46.8</td>
<td>51.0</td>
<td>57.4</td>
<td>66.8</td>
</tr>
</tbody>
</table>

**RANCONA Formulation Technology**

*A Better Seed Treatment*

*RANCONA* Apex Fungicide is specially formulated as a micro-dispersion formulation for better ease of use and lower seed dust levels.

A micro-dispersion is a mixture of water, active ingredient and other additives forming a visually homogenous transparent liquid. The transparent appearance is because the droplets of the dispersed phase are up to about a hundred times smaller than a traditional flowable. Colourant is added to this formulation for seed treatment identity. Water is used as the carrier for these extremely fine particles of active ingredient. Benefits of micro-dispersion formulations are excellent flow properties in the treating process, less treater build-up, low dust levels, excellent distribution on the seed and easy clean-up of treating equipment.

**BROAD SPECTRUM HIGHER LEVEL DISEASE CONTROL**

*RANCONA* Apex is proven to be an outstanding seed treatment for wheat, durum, barley, oats, rye and triticale. It combines excellent protection against Fusarium (seed and soil-borne), Common Root Rot, Smuts (including True Loose), Bunt, Leaf Stripe and other labeled diseases with impeccable safety to seed emergence and viability and vigor.

**COVERED SMUT / BUNT**

An extensive independent trial program in cereals has shown that *RANCONA* Apex provided very high levels of control and in most cases 100% of bunt in many trials and provided over 98% control even under extreme high disease pressure. Bunt is common throughout wheat growing areas of the world and is a problem because of its direct effect on grain quality. Even low level presence can substantially downgrade the quality, resulting in lower prices, and control of the disease is essential for minimizing yield losses.

**LOOSE SMUT**

Loose smut occurs throughout the world and reduces yields proportionate to the incidence of smutted heads. The disease does not cause complete yield loss, however losses as high as 27% have been reported, and more commonly, losses of 15% are recorded. Field trials in cereals confirm that *RANCONA* Apex a superior, systemic seed treatment is essential for control of loose smut which infects the embryo within the seed.

**FUSARIUM**

Fusarium is a serious threat to cereal growers causing root rot and crown rot of all small grains. Independent trials have repeatedly shown that when infection is present the use of *RANCONA* consistently gives the highest plant counts, compared with other seed treatments. The longer lasting activity of *RANCONA* Apex provides excellent early season protection from Fusarium. Studies showed *RANCONA* to be more effective than other leading commercial products on all three major species of Fusarium: culmorum, graminearum, and avenaceum.

**HIGHER YIELDS**

*RANCONA* Apex has provided higher average yields than other leading seed treatments based on university and other independent research trials across cereal growing regions. Protect your investment in genetics and help make the potential yield your actual yield.