**Description**

Apex™ Gold 2501 is a specially designed high energy, sensitized explosive to meet the demands of surface mines and quarries. Apex Gold 2501 provides superior performance under wet or dry conditions. The enhanced performance relates to an overall increase to a mine’s efficiency and productivity.

**Key Benefits**

- Increased mine efficiency and productivity:
  - Improved digability
  - Improved crusher throughput
  - Reduced secondary blasting
  - Reduced maintenance cost
  - Lower operating cost
- Variable shock/gas for improved vibration control, increased shock energy for fragmentation, or increased gas for cast performance
- Maximized transfer of energy from explosive into the rock
- Provides sleep time of up to two months in the borehole.

**Features**

- Enhanced performance:
  - Improved sensitivity
  - Pre-compression resistant
  - Ability to blend with ANFO
  - Customized product
- Reduced loading time
- High energy formulation for reliable blasting
- Full borehole coupling
- Formulated for twelve month shelf life

<table>
<thead>
<tr>
<th>Properties</th>
<th>Apex 2101</th>
<th>Apex 2501</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emulsion (%)</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>ANFO (%)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Cup Density (g/cc)</td>
<td>0.9 – 1.25</td>
<td></td>
</tr>
<tr>
<td>VOD *</td>
<td>19,000</td>
<td>5,800</td>
</tr>
<tr>
<td>VOD ft/s</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOD m/s</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Resistance</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>REE§</td>
<td>RWS 101</td>
<td>RBS 150</td>
</tr>
<tr>
<td>Minimum Diameter **</td>
<td>3 in.</td>
<td>50 mm</td>
</tr>
<tr>
<td>Sleep Time**</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

*Velocity of Detonation: Unconfined at 5°C (41°F). Typical VOD have been measured in excess of the values shown. Actual VODs will depend upon hole diameter and confinement.

**Recommended values. Sleep times should not exceed those recommended for Exel shock tubing.

§ Relative Weight Strength (RWS) and Relative Bulk Strength (RBS). The "Relative Effective Energy" (REE) of an explosive is the energy calculated to be available to do effective blasting work. All energy values are calculated using the iDeX* computer code owned by Orica for the exclusive use of its companies. Energy values are based on standard ANFO with a density of 0.84 g/cc and a cut-off pressure of 100 MPa. Other computer codes may give different values.

---

*www.oricaminsingservices.com*
**Priming**

*Apex Gold* emulsion is a booster sensitive and must be in direct contact with an appropriate size Pentex™ or equivalent booster.

**Note:** Detonating cord may adversely affect the performance of *Apex Gold 2501* emulsion and could result in misfires. Consult an Orica representative for application guidelines before attempting to use with detonating cord.

If exceeding an in-hole depth of 150 feet, please consult an Orica representative for application guidelines.

**Loading**

*Apex Gold 2501* has varying water resistance depending upon blend composition. *Apex Gold 2501* emulsion blend is intended to be pumped into holes.

**Warning:** Do not load *Apex Gold 2501* explosive products into boreholes less than the minimum recommended diameter.

**Shelf Life**

*Apex Gold* matrix has a shelf life of one year from time of manufacture under good storage conditions. Recommended sleep times for blends should not be exceeded.

**Storage**

For best results, store at moderate temperatures in an approved holding tank.

**Ground Temperature**

These products are available for use in ground temperatures 32°F (0°C) to a maximum of 131°F (55°C). If your application requires you to operate outside this temperature range please contact your local Orica representative.

**Hazardous Materials Shipping Description**

USA: Oxidising Substance, Liquid nos
Class 5.1 UN 3139 PG III

Canada: Explosive, blasting, Type E
Class 1.5D, UN 0332 PG II

**Disclaimer**

The information contained herein is based on experience and is believed to be accurate and up to date as at the date of its preparation. However, uses and conditions of use are not within the manufacturer's control and users should determine the suitability of such products and methods of use for their purposes. Neither the manufacturer nor the seller makes any warranty of any kind, express or implied, statutory or otherwise, except that the products described herein shall conform to the manufacturer’s or seller’s specifications. The manufacturer and the seller expressly disclaim all other warranties, INCLUDING, WITHOUT LIMITATION, WARRANTIES CONCERNING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Under no circumstances shall the manufacturer or the seller be liable for indirect, special, consequential, or incidental damages including, without limitation, damages for lost or anticipated profits.

**Warning:** Carbon monoxide and carbon dioxide may migrate through the ground after detonation of explosives. Consult an Orica representative for specific applications.

---

Orica Canada Inc.
301 Hotel De Ville
Brownburg, QC J8G 3B5
Tel: +1 303 268 5000
Fax: +1 303 268 5250

Orica USA Inc.
33101 East Quincy Avenue
Watkins, CO 80137
Tel: +1 303 268 5000
Fax: +1 303 268 5250

www.oricaminingservices.com