AUSTIN POWDER
A TRADITION OF SAFETY, STRENGTH AND SERVICE.

Permissible Products

DESCRIPTION

Austin Powder Company has developed a variety of permissible products to meet virtually every application. Each of these products offer superior performance and are approved for use in underground coal mines or where a permissible explosive is desired.

Coalmex™ is a detonator sensitive emulsion explosive with a paste like consistency packaged in plastic film cartridges.

Red-D Gel-B™ is a high velocity and energy dynamite designed for blasting hard coal and difficult rock applications, such as overcasts and undercasts.

Rockbuster II™ is a non-incendive sheathed explosive approved by MSHA for unconfined blasting of large boulders and rock slabs in underground coal mines.

BENEFITS

Coalmex
- All Purpose emulsion explosive for blasting coal, partings, rock binders and overcasts.
- Resistant to dynamic pre-compression.

Red-D Gel-B
- High density and velocity dynamite.
- Dependable under extreme conditions.
- Delivers high energy for difficult blasting.

Rockbuster II
- Completely enclosed unit does not require drilling or stemming.
- Easy to handle, prime and place.
- Flexible package conforms to the surface.
- Saves money by reducing longwall downtime.

PROPERTIES

<table>
<thead>
<tr>
<th>Product</th>
<th>Density [g/cc]</th>
<th>RBS‡</th>
<th>Water Resistance</th>
<th>VOD [ft/s]</th>
<th>VOD [m/s]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coalmex</td>
<td>1.12</td>
<td>130</td>
<td>Excellent</td>
<td>16,800</td>
<td>5,120</td>
</tr>
<tr>
<td>Red-D Gel-B</td>
<td>1.35</td>
<td>166</td>
<td>Excellent</td>
<td>16,000</td>
<td>4,876</td>
</tr>
<tr>
<td>Rockbuster</td>
<td>NA</td>
<td>NA</td>
<td>Excellent</td>
<td>15,750</td>
<td>4,800</td>
</tr>
</tbody>
</table>

‡ Energy is calculated using TIGER, a thermo-dynamic computer code used by Austin Powder Company. Other computer codes may give different values. ANFO = 100 @ 0.82 g/cc.

PRIMING

Coalmex: Use a permissible high-strength detonator (Coalmine Delay or equivalent).
Red-D Gel-B: Use a permissible high-strength detonator (Coalmine Delay or equivalent).
Rockbuster II: Must be primed with a Rockbuster Special instantaneous electric detonator.
Permissible Products

PACKAGING

<table>
<thead>
<tr>
<th>Product</th>
<th>Cartridge Size [in]</th>
<th>Cartridge Size [mm]</th>
<th>Case Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coalmex</td>
<td>1 ¼ x 16</td>
<td>32 x 400</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>1 ½ x 16</td>
<td>38 x 400</td>
<td>48</td>
</tr>
<tr>
<td>Red-D Gel-B</td>
<td>1 ¼ x 8</td>
<td>32 x 200</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td>1 ¼ x 16</td>
<td>32 x 400</td>
<td>88</td>
</tr>
<tr>
<td>Rockbuster II</td>
<td>13 x 8.5 x 3.5</td>
<td>330 x 215 x 89</td>
<td>4</td>
</tr>
</tbody>
</table>

Note: All dimensions and weights are nominal.

STORAGE
Store in accordance with all applicable local, state, provincial and federal laws.

SHELF LIFE
One year from date of manufacture under good storage conditions.

UN CLASSIFICATION

Coalmex
Shipping Name: Explosive, Blasting, Type E
Class & Division: 1.1D
ID Number: UN0241

Red-D Gel-B
Shipping Name: Explosive, Blasting, Type A
Class & Division: 1.1D
ID Number: UN0081

Rockbuster
Shipping Name: Rockbuster II
Class & Division: 1.1D
ID Number: UN0081

DOT REFERENCE NUMBER

Coalmex (EX-1993050177)
Red-D Gel-B (EX-9303286)
Rockbuster II (EX-9303286)

Disclaimer of Warranties and Limitations of Liabilities

"Products described in this bulletin are sold by Austin Powder Company without warranty; express, implied or statutory or as to MERCHANTABILITY, except as expressly stated in Austin Powder’s straight bill of lading. Under no circumstances shall seller be liable for loss of anticipated profits, consequential damages or incidental damages."

[1/2/02 | 12/01/16]