BLACK BEAUTY® ABRASIVE SPECIFICATION SHEET

Medium grade BLACK BEAUTY® abrasive for general purpose repair and maintenance blasting; REMOVAL OF PAINT AND RUST, STRUCTURAL STEEL, MILL SCALE, GENERAL PURPOSE, AGGREGATE EXPOSURE.

Fine grade BLACK BEAUTY® abrasive for new construction, light paint and rust removal, and for special maintenance applications requiring reduced profiles; BRIDGE MAINTENANCE, LIGHT MILL SCALE, LIGHT PAINT AND RUST, NEW STRUCTURAL STEEL.

Extra fine grade BLACK BEAUTY® abrasive to clean surfaces and create a smooth finish, Brush-Off Blast, or in a high-pressure water blast system.

If your project requires a specialized blasting abrasive, we can help. Using our proprietary processes and superior blending capabilities, we can fine-tune your BLACK BEAUTY® blasting abrasive to Elite Gradations. Contact our Customer Service group (888) REEDMIN for immediate assistance.

Plants and Sales Offices
1-888-REEDMIN (733-3646)

AL, Satsuma
240 Baldwin Road
Satsuma, AL 36572
(800) 731-7982

FL, Tampa
5950 Old 41A Highway
Tampa, FL 33619
(800) 731-7982

IL, Pawnee
226 East 1640 Road
Pawnee, IL 62558
(217) 237-4335

IL, Pekin
13090 E. Manito Road
Pekin, IL 61554
(309) 347-1962

IN, Gary
7100 West 9th Avenue
Gary, IN 46406
(888) 733-3646

KS, LaCygne
East 2150 Industrial Blvd.
LaCygne, KS 66040
(888) 733-3646

KY, Drakesboro
9001 State Route 176 East
Drakesboro, KY 42337
(270) 476-8020

OH, Gallipolis
5486 State Route 7 North
Cheshire, OH 45620
(304) 845-0211

OH, Niles
412 McKees Lane
Niles, OH 44446
(330) 652-2002

PA, Philadelphia
905 Steel Road South
Fairless Hills, PA 19030
(888) 733-3646

TX, Houston
13040-A Market Street
Houston, TX 77015
(800) 731-7982

TX, Rockdale
FM 1786
at Alcoa Sandow Works
(800) 731-7982

WV, Moundsville
Route 2 South
Moundsville, WV 26041
(304) 845-0211
This **BLACK BEAUTY®** abrasive ‘profile guide’ shows profile ranges achieved with different grades of **BLACK BEAUTY®** abrasives with a controlled environment in a blast cabinet designed by Reed Minerals. The controlled environment consisted of 100 psi at the nozzle, nozzle to surface distance of 18” +/- 3”, a 3/8” orifice long venture nozzle, on new 1/8” grade A36 steel, with a blast angle of 75° to 105°.

Some variance in the profile can be noted by the profile ranges even in a controlled environment. Reed Minerals cannot guarantee identical profile results with **BLACK BEAUTY®** abrasives in the field where variability exist.

**BLACK BEAUTY® ABRASIVE PROFILE GUIDE**

<table>
<thead>
<tr>
<th>Profile (Mils)</th>
<th>Suggested Minimum Nozzle Size</th>
</tr>
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<tbody>
<tr>
<td>0</td>
<td>1/4” MEDIUM</td>
</tr>
<tr>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>3/16” FINE</td>
</tr>
<tr>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td>3.5</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1/8” EX-FINE</td>
</tr>
<tr>
<td>4.5</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

**BLACK BEAUTY® ABRASIVE PRODUCT GRADES**

GRADATION & AVAILABILITY VARY FROM PLANT TO PLANT

**BLACK BEAUTY® ABRASIVE PRODUCT DATA (TYPICAL)**

- **FREE SILICA** – less than 0.1%
- **PARTICLE SHAPE** – angular, sharp
- **HARDNESS** – 6 to 7 on the Moh’s scale
- **BULK DENSITY** – 75-100 lbs per cubic ft depending on gradation
- **SPECIFIC GRAVITY** – 2.73
- **MOISTURE CONTENT** – less than 0.5%

**CHEMICAL ANALYSIS**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Dioxide</td>
<td>48.78%</td>
</tr>
<tr>
<td>Aluminum Oxide</td>
<td>20.97%</td>
</tr>
<tr>
<td>Ferric Oxide</td>
<td>19.08%</td>
</tr>
<tr>
<td>Calcium Oxide</td>
<td>6.02%</td>
</tr>
<tr>
<td>Potassium Oxide</td>
<td>1.67%</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>0.94%</td>
</tr>
<tr>
<td>Magnesium Oxide</td>
<td>0.90%</td>
</tr>
<tr>
<td>Sodium Oxide</td>
<td>0.62%</td>
</tr>
</tbody>
</table>

Specific data may be obtained by contacting REED MINERALS