CARBON/SULFUR DETERMINATOR CS-800

**Affordable Carbon and Sulfur Analysis by ELTRA**
- 4th Place Balance Included
- Reliable Printer
- Microprocessor Controlled
- Automatic Furnace Cleaning
- Compact Design
- Direct Reading
- Rapid Analysis
- Easy to Operate
- Low Maintenance
- Burnished Stainless Steel Cabinet

Thanks to Alpha you no longer have to pay as much for your carbon/sulfur determinator as you did for your home. The **CS-800 is affordably priced** and comes with **many desirable features** as standard equipment.

The CS-800 by ELTRA provides the speed and accuracy required for today's stringent demands. Both the furnace and electronic systems are contained in one space saving cabinet. Carbon and sulfur are simultaneously determined in about **50 seconds**. The unit comes complete with an interfaced 4th place balance (0.0001 gm) resolution with a 100 gm capacity. This can yield **greater accuracy** with **automatic weight entry** as another standard feature.

The unit employs a high powered induction furnace (High Frequency) for rapid, complete sample combustion. A **16 bit microprocessor** controls the entire process along with 3 channel solid state I.R. detectors which deliver a signal resolution of 0.1 ppm. Four built in calibration curves are available and the instrument automatically switches from low to high carbon ranges when required for the sample analysis.

The CS-800 is **easy to operate**. The analysis is simply initiated by introducing the crucible containing the weighed sample and accelerator onto the pedestal. A touch of a switch **pneumatically inserts the specimen** into the high powered induction furnace and the analysis is completed in about **50 seconds**. The results are displayed on a large, easy-to-read LCD screen and printed for hard copy. The furnace section is automatically cleaned after each analysis.

Additional features such as graphic peaks display, standard deviation calculations and data storage can easily be accomplished by connecting the output of the CS-800 to your PC. Single element (carbon or sulfur) units are also available.

**Because of Alpha, your obsolete LECO® equipment now has value.** Realize further savings by trading in your obsolete LECO® equipment. Call Alpha today for more information.

**VISIT US AT:** [WWW.ALPHARESOURCES.COM](http://WWW.ALPHARESOURCES.COM)

**YOU MAY BEGIN PLACING ORDERS ONLINE BEGINNING JANUARY 1, 2003!!!**
We manufacture our micro hardness test blocks to exceed industry standards. All of our micro test blocks are mirror-polished and mounted to provide the best possible test surface.

Each mirror-polished Heavy Load Vickers test block has the same surface number as the penetrator in the kit. All of our test blocks come with their own polished finish in the hardness test system. Should a problem arise, a master kit on hand allows you to quickly and accurately determine whether your hardness tester is the source of the problem.

Each block in our kits has been calibrated on a tester whose accuracy has been verified using N.I.S.T. traceable load and depth measuring devices. The individual test blocks are marked both with their own unique serial number AND the serial number of the penetrator in the kit. All of our kits come with their own polished wood case, and certified to all applicable standards.

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  - AM4024 10mm Steel Balls
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  - AM4003 2000 Kg Load 10mm Ball All Hardness Ranges
  - AM4002 2000 Kg Load 10mm Ball All Hardness Ranges
  - AM4001 1500 Kg Load 10mm Ball All Hardness Ranges
  - AM4000 1000 Kg Load 10mm Ball All Hardness Ranges
  - AM4029 500 Kg Load 10mm Ball All Hardness Ranges
  - AM4028 250 Kg Load 10mm Ball All Hardness Ranges
  - AM4027 187.5 Kg Load 10mm Ball All Hardness Ranges
  - AM4026 Telebrinell Test Blocks
  - AM4025 10mm Carbide Balls
  - AM4024 10mm Steel Balls
- **MICRO HARDNESS TEST BLOCK & ACCESSORIES**
  - AM4019 Vickers (1 gram to 1,000 gram) All Ranges
  - AM4020 Heavy Load Vickers (1 Kg to 50 Kg) All Ranges
  - AM4021 Knoop (1 gram to 1,000 gram) All Ranges
  - AM4022 Vickers Diamond Penetrator
  - AM4023 Knoop Diamond Penetrator

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**Contact us at:**
- Toll Free (USA only) 1-800-833-3083
- Phone 1-269-465-5559
- Fax 1-269-465-5209
- Email alphares@aol.com

To quickly and correctly place your order, please provide us with the following information:
- Correct Shipping and Billing address
- Name of Contact person
- Telephone and Fax number
- Part number and unit of measure for each item
- Purchase order number

**Shipping Information:**
- **Method of shipment (see below)**
- **AM4097**
- **AM4098**
- **AM4099**
- **AM4100**
- **AM4101**

**Ordering Online:** Beginning January 1, 2003, Alpha Resources will be able to accept your purchase orders online. You will be able to issue a purchase order and get current pricing while placing the order. You are encouraged to visit our new web page to save time when placing your orders.

**Payment Terms:** Alpha Resources has a $25.00 minimum invoice delivery requirement. Alpha Resources terms are Net 30 with approved credit. New customers will need to submit credit references when placing their first order. Our FOB shipping point is Stevensville, MI. Alpha Resources is pleased to provide its customers with UPS shipping. We will attempt to ship all regular orders within a period of 5 days from the date the order is received. We also have available UPS Red (next day), UPS Blue (second day) and UPS Orange (third day) shipping. You will need to specify these methods when you place your order.

**Disclaimers:**
- Alpha products are intended for use in a laboratory environment. They are not recommended for use in the home or for other applications. It is the customer's responsibility to store, handle, properly use and dispose of all products purchased from Alpha Resources, Inc. Our prices are subject to change without notice. Customers should contact Alpha to obtain the current price.
Alpha's presence in the marketplace has helped control unjustified price increases and has caused price reductions by our competition. You need us and that you need us as much as we need you. Thanks for your continued support.

Many of you have benefited by this healthy condition. Now, Alpha Resources, Inc. has caused price increases, but the results are more limited.

We offer the LARGEST in stock selection of ROCKWELL TEST BLOCKS IN THE INDUSTRY. If you don’t see what you are looking for, call ALPHA today at 1-800-833-3083.
ABRASIVE CUT-OFF WHEELS

To the metallurgist, the quality of the cut should be paramount and the wheel life secondary. Abrasive cutting provides one of the best solutions to minimize heat and deformation. To cut properly, a bonded abrasive wheel should be matched to the cut-off machine. Alpha’s abrasive cut-off wheels are used to section ferrous, non-ferrous, stainless steel, titanium, rocks, glass and other materials.

All of Alpha’s wheels are rubber bonded. To cut clean and fast, the bond should break down rapidly and expose fresh grains. Hard wheels are strongly bonded and more tenaciously hold each abrasive grain while soft wheels readily break down and release abrasive particles. A soft bond should be used to section hard materials, while a hard bond should be used to section soft materials. Typical abrasive particles are Aluminum Oxide and Silicon Carbide.

It is important to properly cool the sample as it is cut. This can be done by submerged or jet-spray cooling.

INDESTRUCTABLE CUT-OFF WHEEL

Reinforced, Diamond Impregnated, SiC on a Fiberglass mesh base helps make this flexible wheel almost indestructible and long lasting. A metallurgical cut can be obtained by using ample cooling water. The wheels have been sprayed to minimize flexing and help assure a straight cut. This wheel is almost impossible to break and will virtually eliminate breakage.

This remarkable wheel can easily cut a wide variety of materials including ceramics, tool steel, aluminum, titanium, acrylics and other materials.

INDESTRUCTIBLE CUT-OFF WHEEL

Available in convenient 6 oz. (177 ml.) dispenser bottles

DESCRIPTION MICRON SIZE UNIT CATALOG NO.
Alumina Suspension 5.0 6 oz. AM0825
Alumina Suspension 5.0 gal. AM0825G
Alpha Alumina* 1.0 6 oz. AM0832
Alpha Alumina* 1.0 gal. AM0818
Alpha Alumina* 0.3 6 oz. AM0827
Alpha Alumina* 0.3 gal. AM0834
Alpha Alumina* 0.1 6 oz. AM0833
Gamma Alumina 0.05 6 oz. AM0826
Gamma Alumina* 0.05 gal. AM0065
Chromic Oxide 1-3 6 oz. AM0828
Chromic Oxide 0.5 6 oz. AM0829
C-RO .05 6 oz. AM0830
Cerium Oxide 1.0 6 oz. AM0831
Master Polish Aquaeous Colloidal High pH SiO2 0.06 32 oz. AM1022
Colloidal High pH SiO2 gal. AM1022S

MAGNESIUM OXIDE

DESCRIPTION MICRON SIZE UNIT CATALOG NO.
MgO 2.0 1 Lb. (.454 kg) AM0788
### Abrasive Cut-Off Supplies

<table>
<thead>
<tr>
<th>RECOMMENDED USE</th>
<th>ABRASIVE</th>
<th>THICKNESS</th>
<th>CATALOG NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rc 60+ Hardened</td>
<td>Al₂O₃</td>
<td>.070 Inch (1.8mm)</td>
<td>AM1059</td>
</tr>
<tr>
<td>Rc 45-60 Hardened</td>
<td>Al₂O₃</td>
<td>.070 Inch (1.8mm)</td>
<td>AM1061</td>
</tr>
<tr>
<td>Rc 30-45 Medium Hard</td>
<td>Al₂O₃</td>
<td>.070 Inch (1.8mm)</td>
<td>AM1067</td>
</tr>
<tr>
<td>Rc 25-35 Medium Soft</td>
<td>Al₂O₃</td>
<td>.062 Inch (1.6mm)</td>
<td>AM1051</td>
</tr>
</tbody>
</table>

### 9 Inch (229 mm) with 1.25 Inch (32 mm) Arbor Hole Wheels Sold in 10/Pkg. Only

<table>
<thead>
<tr>
<th>RECOMMENDED USE</th>
<th>ABRASIVE</th>
<th>THICKNESS</th>
<th>CATALOG NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rc 60+ Hardened</td>
<td>Al₂O₃</td>
<td>.070 Inch (1.8mm)</td>
<td>AM1035</td>
</tr>
<tr>
<td>Rc 45-60 Hardened</td>
<td>Al₂O₃</td>
<td>.070 Inch (1.8mm)</td>
<td>AM1036</td>
</tr>
<tr>
<td>Rc 30-45 Medium Hard</td>
<td>Al₂O₃</td>
<td>.070 Inch (1.8mm)</td>
<td>AM1037</td>
</tr>
<tr>
<td>Rc 25-35 Medium Soft</td>
<td>Al₂O₃</td>
<td>.070 Inch (1.8mm)</td>
<td>AM1049</td>
</tr>
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</table>

### Delicate Cutting

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>CATALOG NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultra Thin Blade</td>
<td>Al₂O₃</td>
<td>.040 Inch (1.0mm) AM0309</td>
</tr>
<tr>
<td>Rocks &amp; Glass Etc.</td>
<td>SiC</td>
<td>.062 Inch (1.6mm) AM1052</td>
</tr>
<tr>
<td>Zirconium, Titanium Uranium, etc.</td>
<td>SiC</td>
<td>.062 Inch (1.6mm) AM1053</td>
</tr>
</tbody>
</table>

### Miscellaneous Cutting Supplies

Coolant Concentrate - for use with cutters and grinders. Not recommended for use when cutting aluminum or brass.

Nitrite-Free Coolant Concentrate - for use when cutting aluminum, brass, and other soft materials. Will not corrode these materials.

Cutting Fluid - for use with diamond wafering blades and low speed saws.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>CATALOG NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolant Concentrate</td>
<td>1 quart</td>
<td>AM1010</td>
</tr>
<tr>
<td>Coolant Concentrate</td>
<td>1 gallon</td>
<td>AM1017</td>
</tr>
<tr>
<td>Nitrite-Free Coolant Concentrate</td>
<td>1 quart</td>
<td>AM1018</td>
</tr>
<tr>
<td>Nitrite-Free Coolant Concentrate</td>
<td>1 gallon</td>
<td>AM1019</td>
</tr>
<tr>
<td>Cutting Fluid for Diamond Saws</td>
<td>1 quart</td>
<td>AM1023</td>
</tr>
<tr>
<td>Cutting Fluid for Diamond Saws</td>
<td>1 gallon</td>
<td>AM1024</td>
</tr>
<tr>
<td>Dressing Sticks for Diamond Saw</td>
<td>Each</td>
<td>AM1724</td>
</tr>
<tr>
<td>Dressing Sticks for Abrasive Wheels</td>
<td>Each</td>
<td>AM1725</td>
</tr>
<tr>
<td>Ultrasonic Cleaner</td>
<td>Each</td>
<td>AM2000</td>
</tr>
<tr>
<td>Ultrasonic Cleaner Sol.</td>
<td>1 quart</td>
<td>AM1110</td>
</tr>
</tbody>
</table>

### ALCRON® Diamond Compounds

**ALCRON® “PUMP” DIAMOND SUSPENSION**

Alpha introduces another new product with very attractive features. The Alcron® Diamond Suspension ensures that the user can utilize 100% of the contents he is paying for. The hand pump device is resistant to nozzle clogging, especially in the high micron sizes. This item can be used as either a suspension or a spray. The Alcron® Suspension is sold only in “super heavy” concentrations which contains three to four times more diamond than most aerosol cans sold. Available in 4 oz. hand pump bottles of oil/water soluble suspension.

### Advantages

- Faster
- Simple & Reliable
- Non-Evaporative
- No Lubrication
- Non-Clogging Nozzle
- Oil/Water Soluble
- Infinite Shelf Life
- Total Contents Useable
- Color Coded for Micron Sizes

<table>
<thead>
<tr>
<th>MICRON CONCENTRATION</th>
<th>COLOR</th>
<th>CATALOG NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4 Super Heavy</td>
<td>White</td>
<td>AM0500</td>
</tr>
<tr>
<td>1/2 Super Heavy</td>
<td>White</td>
<td>AM0501</td>
</tr>
<tr>
<td>1 Super Heavy</td>
<td>White</td>
<td>AM0502</td>
</tr>
<tr>
<td>3 Super Heavy</td>
<td>Yellow AM0503</td>
<td></td>
</tr>
<tr>
<td>6 Super Heavy</td>
<td>Orange AM0504</td>
<td></td>
</tr>
<tr>
<td>9 Super Heavy</td>
<td>Green  AM0505</td>
<td></td>
</tr>
<tr>
<td>15 Super Heavy</td>
<td>Blue   AM0508</td>
<td></td>
</tr>
<tr>
<td>30 Super Heavy</td>
<td>Red    AM0507</td>
<td></td>
</tr>
<tr>
<td>45 Super Heavy</td>
<td>Brown  AM0508</td>
<td></td>
</tr>
</tbody>
</table>

**ALCRON® DIAMOND SLURRY**

The same high quality natural diamond that is available in Alpha’s Alcron® Compound is now offered in a water/oil soluble slurry form. The diamond slurries are already diluted for immediate use and are more economical. The 400 g. bottle of slurry is about equivalent to 18 g. of diamond paste.

<table>
<thead>
<tr>
<th>MICRON CONCENTRATION</th>
<th>COLOR</th>
<th>CATALOG NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 Slurry</td>
<td>White</td>
<td>400 Grams AM1010</td>
</tr>
<tr>
<td>3.0 Slurry</td>
<td>Yellow 400 Grams AM1012</td>
<td></td>
</tr>
<tr>
<td>6.0 Slurry</td>
<td>Orange 400 Grams AM1014</td>
<td></td>
</tr>
<tr>
<td>10.0 Slurry</td>
<td>Green  400 Grams AM1016</td>
<td></td>
</tr>
<tr>
<td>15.0 Slurry</td>
<td>Lt. Blue 400 Grams AM1018</td>
<td></td>
</tr>
<tr>
<td>30.0 Slurry</td>
<td>Red    400 Grams AM1020</td>
<td></td>
</tr>
</tbody>
</table>
DIAMOND CUT-OFF SUPPLIES

The IMPTECH PC-10 is small and compact with a functional design. It has a variable speed of 0-400 rpm and an easily removed fluid tank. It is easy to operate and can accommodate diamond, silicon carbide and aluminum oxide wafering blades. It can hold up to 300 grams and can section samples up to 50 mm in width with .01 mm accuracy.

DIAMOND CUT-OFF BLADES

DIAMOND WAFERING BLADES
For use on Low-Speed Diamond Saws • 1/2 Inch (12.7 mm) Hole

<table>
<thead>
<tr>
<th>WHEEL SIZE</th>
<th>THICKNESS</th>
<th>CATALOG NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Inch (127 mm)</td>
<td>.014 Inch (.35 mm)</td>
<td>AM1136</td>
</tr>
<tr>
<td>4 Inch (102 mm)</td>
<td>.012 Inch (.31 mm)</td>
<td>AM1137</td>
</tr>
<tr>
<td>3 Inch (76.2 mm)</td>
<td>.006 Inch (.16 mm)</td>
<td>AM1138</td>
</tr>
</tbody>
</table>

MINIATURE ABRASIVE CUT-OFF WHEELS
4 Inch (101.6 mm) • 1/2 Inch (12.7 mm) Hole

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>THICKNESS</th>
<th>CATALOG NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Al2O3</td>
<td>.015 Inch (.38 mm)</td>
<td>AM1146</td>
</tr>
<tr>
<td>SiC</td>
<td>.031 Inch (.79 mm)</td>
<td>AM1147</td>
</tr>
<tr>
<td>Al2O3</td>
<td>.015 Inch (.38 mm)</td>
<td>AM1146</td>
</tr>
<tr>
<td>SiC</td>
<td>.031 Inch (.79 mm)</td>
<td>AM1147</td>
</tr>
</tbody>
</table>

DIAMOND GRINDING DISCS
METAL BONDED (Electroplated)
8 Inch (203 mm) • No Hole • PSA • Full Surface Diamond

<table>
<thead>
<tr>
<th>MICRON</th>
<th>MESH</th>
<th>CATALOG NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>149-176</td>
<td>100</td>
<td>AM0396</td>
</tr>
<tr>
<td>63-74</td>
<td>220</td>
<td>AM0397</td>
</tr>
<tr>
<td>45</td>
<td>280</td>
<td>AM0398</td>
</tr>
<tr>
<td>30</td>
<td>320</td>
<td>AM0399</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td>AM0401</td>
</tr>
<tr>
<td>8 Inch (203 mm)</td>
<td>1 Inch (25 mm) Hole • Plain Black 2 1/2 Inch (64 mm) Safe Center Area</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MICRON</th>
<th>MESH</th>
<th>CATALOG NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>149-176</td>
<td>100</td>
<td>AM0402</td>
</tr>
<tr>
<td>63-74</td>
<td>220</td>
<td>AM0403</td>
</tr>
<tr>
<td>45</td>
<td>280</td>
<td>AM0404</td>
</tr>
<tr>
<td>30</td>
<td>320</td>
<td>AM0405</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td>AM0406</td>
</tr>
</tbody>
</table>
Bakelite® Preforms are a more convenient and cleaner method for mounting specimens. Since they come as solid round discs, you minimize the mess associated with the use of powders. Bakelite® Preforms are resin molds which cure at 4200 psi and 150 °F. They are good for mounting materials which will not be deformed by high pressure or temperature. This method is more economical and usually requires less time.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>CATALOG NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black, 1&quot; dia.</td>
<td>20</td>
<td>AM1301</td>
</tr>
<tr>
<td>Black, 1 1/4&quot; dia.</td>
<td>20</td>
<td>AM1304</td>
</tr>
<tr>
<td>Black, 1 1/2&quot; dia.</td>
<td>1000</td>
<td>AM1306</td>
</tr>
<tr>
<td>Black, 1 1/4&quot; dia.</td>
<td>500</td>
<td>AM1307</td>
</tr>
<tr>
<td>Black, 1 1/2&quot; dia.</td>
<td>20</td>
<td>AM1308</td>
</tr>
<tr>
<td>Red, 1 1/2&quot; dia.</td>
<td>20</td>
<td>AM1312</td>
</tr>
<tr>
<td>Red, 1 1/4&quot; dia.</td>
<td>1000</td>
<td>AM1313</td>
</tr>
<tr>
<td>Red, 1 1/4&quot; dia.</td>
<td>500</td>
<td>AM1314</td>
</tr>
<tr>
<td>Red, 1 1/2&quot; dia.</td>
<td>1000</td>
<td>AM1315</td>
</tr>
<tr>
<td>Red, 1 1/4&quot; dia.</td>
<td>20</td>
<td>AM1316</td>
</tr>
<tr>
<td>Red, 1 1/2&quot; dia.</td>
<td>100</td>
<td>AM1317</td>
</tr>
<tr>
<td>Red, 1 1/4&quot; dia.</td>
<td>500</td>
<td>AM1318</td>
</tr>
<tr>
<td>Red, 1 1/2&quot; dia.</td>
<td>1000</td>
<td>AM1319</td>
</tr>
<tr>
<td>Red, 1 1/4&quot; dia.</td>
<td>20</td>
<td>AM1320</td>
</tr>
<tr>
<td>Red, 1 1/2&quot; dia.</td>
<td>100</td>
<td>AM1321</td>
</tr>
<tr>
<td>Red, 1 1/4&quot; dia.</td>
<td>500</td>
<td>AM1322</td>
</tr>
<tr>
<td>Red, 1 1/2&quot; dia.</td>
<td>1000</td>
<td>AM1323</td>
</tr>
<tr>
<td>Green, 1&quot; dia.</td>
<td>20</td>
<td>AM1324</td>
</tr>
<tr>
<td>Green, 1 1/8&quot; dia.</td>
<td>100</td>
<td>AM1325</td>
</tr>
<tr>
<td>Green, 1 1/2&quot; dia.</td>
<td>1000</td>
<td>AM1326</td>
</tr>
<tr>
<td>Green, 1 1/4&quot; dia.</td>
<td>20</td>
<td>AM1327</td>
</tr>
<tr>
<td>Green, 1 1/2&quot; dia.</td>
<td>1000</td>
<td>AM1328</td>
</tr>
<tr>
<td>Green, 1 1/4&quot; dia.</td>
<td>100</td>
<td>AM1329</td>
</tr>
<tr>
<td>Green, 1 1/2&quot; dia.</td>
<td>1000</td>
<td>AM1330</td>
</tr>
<tr>
<td>Green, 1 1/4&quot; dia.</td>
<td>20</td>
<td>AM1332</td>
</tr>
<tr>
<td>Green, 1 1/2&quot; dia.</td>
<td>100</td>
<td>AM1333</td>
</tr>
<tr>
<td>Green, 1 1/4&quot; dia.</td>
<td>500</td>
<td>AM1334</td>
</tr>
<tr>
<td>Green, 1 1/2&quot; dia.</td>
<td>1000</td>
<td>AM1335</td>
</tr>
</tbody>
</table>
### Polishing Cloths

#### Napped

<table>
<thead>
<tr>
<th>Description</th>
<th>Wheel Size</th>
<th>Recommended Use</th>
<th>Unit</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
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<td>AM0702</td>
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<td>AM0514</td>
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<tr>
<td>Kitten's Ear, for 8&quot; Plain Back</td>
<td>short pile, for general purpose final polishing, use with fine Al2O3</td>
<td>10/pkg.</td>
<td>AM0550</td>
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<td>10/pkg.</td>
<td>AM0553</td>
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<td>short pile, for general purpose final polishing, use with fine Al2O3</td>
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<tr>
<td>Velvet, for 8&quot; Plain Back</td>
<td>short pile, for general purpose final polishing, use with fine Al2O3</td>
<td>10/pkg.</td>
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<tr>
<td>Selvylt, for 8&quot; Plain Back</td>
<td>short pile, for general purpose final polishing, use with fine Al2O3</td>
<td>10/pkg.</td>
<td>AM0461</td>
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<tr>
<td>Selvylt, for 12&quot; Plain Back</td>
<td>short pile, for general purpose final polishing, use with fine Al2O3</td>
<td>10/pkg.</td>
<td>AM0510</td>
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<tr>
<td>Imperial Cloth, for 8&quot; PSA</td>
<td>final polishing of soft metals &amp; crys</td>
<td>10/pkg.</td>
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<td>final polishing of soft metals &amp; crys</td>
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### Compression Molding

#### Compression Molding Powders

<table>
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<tr>
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<th>Recommended Molding Pressure</th>
<th>Unit</th>
<th>Catalog No.</th>
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<tbody>
<tr>
<td>Black Phenolic</td>
<td>4200 PSI</td>
<td>5 lb.</td>
<td>AM1111</td>
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<tr>
<td>Red Phenolic</td>
<td>4200 PSI</td>
<td>5 lb.</td>
<td>AM1118</td>
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<tr>
<td>Green Phenolic</td>
<td>4200 PSI</td>
<td>5 lb.</td>
<td>AM1123</td>
</tr>
<tr>
<td>Blue Dibutyl Phthalate, mineral filled</td>
<td>3000 PSI</td>
<td>5 lb.</td>
<td>AM1135</td>
</tr>
<tr>
<td>Blue Dibutyl Phthalate, glass filled</td>
<td>3000 PSI</td>
<td>5 lb.</td>
<td>AM1142</td>
</tr>
<tr>
<td>Dibutyl Phthalate, copper filled</td>
<td>3000 PSI</td>
<td>1 lb.</td>
<td>AM1143</td>
</tr>
<tr>
<td>Transparent Lucite*</td>
<td>100 PSI</td>
<td>4200 PSI</td>
<td>5 lb.</td>
</tr>
<tr>
<td>Fina-met</td>
<td>3000-4200 PSI</td>
<td>4 lb.</td>
<td>AM1144</td>
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</table>

#### Compression Molding

This sample preparation method has long been used to help protect the sample edge during the various stages of preparation. Cost is minimal and samples can be processed in a few minutes.

**Thermosetting Material**

- Phenolics: Poor edge retention, high shrinkage, available in many colors
- Diallyls: Fair edge retention, moderate shrinkage, available in many forms
- Fina-met: Excellent edge retention, glass filled ground Bakelite® powder

**Thermoplastic Material**

- Acrylics: Fair edge retention, moderate shrinkage, transparent

### Mould Cups

**Reusable Silicone Rubber Molds—All Dimensions Inside Diameter**

<table>
<thead>
<tr>
<th>Size</th>
<th>Unit</th>
<th>Catalog No.</th>
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</thead>
<tbody>
<tr>
<td>1.00 Inch (2.5 cm)</td>
<td>Each</td>
<td>AM3018</td>
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<tr>
<td>1.25 Inch (3.2 cm)</td>
<td>Each</td>
<td>AM3019</td>
</tr>
<tr>
<td>1.50 Inch (3.8 cm)</td>
<td>Each</td>
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### Miscellaneous Mounting Supplies

<table>
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<tr>
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<tbody>
<tr>
<td>Plastic Sample Clips</td>
<td>100</td>
<td>AM0486</td>
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<tr>
<td>Metal Spring Clips</td>
<td>100</td>
<td>AM0485</td>
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<tr>
<td>Silicone Aerosol Mold Release</td>
<td>20 oz</td>
<td>AM1271</td>
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<tr>
<td>Graduated Paper Cups, 5 oz.</td>
<td>100</td>
<td>AM1275</td>
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<tr>
<td>Ultra Sonic Cleaner (see pg.6)</td>
<td>Each</td>
<td>AM0200</td>
</tr>
<tr>
<td>Stirring Sticks</td>
<td>500</td>
<td>AM0995</td>
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<tr>
<td>Cotton Gloves</td>
<td>Pr.</td>
<td>AM0635</td>
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<tr>
<td>Leather Gloves</td>
<td>Pr.</td>
<td>AM0636</td>
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*Hazardous Material*
COLD MOUNTING MATERIALS

These materials are recommended for mounting specimens easily deformed by heat and pressure. Cold mounting is ideal for use when you want to observe the orientation of the specimen. It is also good when you want to mount small fragile specimens. In this system of mounting, edge protection is also of paramount importance.

**Acrylics:**
- Poor edge retention, high exotherm, high shrinkage, transparent

**Epoxys:**
- Good edge retention, low exotherm, low shrinkage, transparent

### Acrylics

- **Exothermal Temperature Rise:** High
- **Relative Hardness:** Medium
- **Color:** Milky White
- **Shrinkage:** High
- **Acrylic Mixing Instructions:** (AM1201-AM1209): The recommended ratio is two parts resin to one part hardener by volume. Mix for 30 seconds and pour over specimen. Cure time is about 30 minutes at room temperature.

### Epoxy

- **Exothermal Temperature Rise:** Low
- **Relative Hardness:** Very Hard
- **Color:** Transparent White
- **Shrinkage:** Low
- **Adhesion:** Very Good

## Abrasive Discs

### Aluminum Oxide • Wet or Dry • PSA Back

#### 8 Inch (203 mm) No Hole

<table>
<thead>
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<th>Description</th>
<th>Unit</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
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<td>Al2O3 Discs, 8&quot;xNH, PSA back, grit 60</td>
<td>25/box</td>
<td>AM2034</td>
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<tr>
<td>Al2O3 Discs, 8&quot;xNH, PSA back, grit 80</td>
<td>25/box</td>
<td>AM2032</td>
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<td>Al2O3 Discs, 8&quot;xNH, PSA back, grit 120</td>
<td>25/box</td>
<td>AM2035</td>
</tr>
<tr>
<td>Al2O3 Discs, 8&quot;xNH, PSA back, grit 180</td>
<td>25/box</td>
<td>AM2036</td>
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<td>Al2O3 Discs, 8&quot;xNH, PSA back, grit 240</td>
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#### 12 Inch (305 mm) No Hole

<table>
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<td>AM2082</td>
</tr>
<tr>
<td>Al2O3 Discs, 12&quot;xNH, PSA back, grit 120</td>
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<td>AM2083</td>
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<td>Al2O3 Discs, 12&quot;xNH, PSA back, grit 180</td>
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<td>AM2084</td>
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#### 14 Inch (356 mm) No Hole

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<td>AM2085</td>
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<tr>
<td>Al2O3 Discs, 14&quot;xNH, PSA back, grit 120</td>
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### Grit Comparison Chart

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<th>ANSI Microns</th>
<th>FEPA &quot;P&quot; Microns</th>
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<td>3.0</td>
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* Hazardous Materials
Zirconia Alumina abrasive cloths may be used for wet or dry grinding. They have a fast cutting rate and they operate cooler than SiC abrasives. The ZIR AL abrasive cloths have a longer life and are more durable than SiC and other abrasive papers. Please note the package quantities are different from the standard SiC packaging.

SILICON CARBIDE • WET OR DRY • PSA BACK

DESCRIPTION UNIT CATALOG NO.
SiC Discs, 14”xNH, PSA back, grit 60 50/box AM0242
SiC Discs, 14”xNH, PSA back, grit 120 50/box AM0245
SiC Discs, 14”xNH, PSA back, grit 180 50/box AM0246
SiC Discs, 14”xNH, PSA back, grit 240 50/box AM0247
SiC Discs, 14”xNH, PSA back, grit 320 50/box AM0248
SiC Discs, 14”xNH, PSA back, grit 400 50/box AM0249
SiC Discs, 14”xNH, PSA back, grit 600 50/box AM0249
SiC Discs, 14”xNH, PSA back, grit 800 50/box AM0250

SILICON CARBIDE • WET OR DRY • NO HOLE

DESCRIPTION UNIT CATALOG NO.
SiC Rolls, 3”x75 ft, grit 60 100/box AM0001
SiC Rolls, 3”x75 ft, grit 80 100/box AM0002
SiC Rolls, 3”x75 ft, grit 120 100/box AM0003
SiC Rolls, 3”x75 ft, grit 180 100/box AM0004
SiC Rolls, 3”x75 ft, grit 240 100/box AM0005
SiC Rolls, 3”x75 ft, grit 320 100/box AM0006
SiC Rolls, 3”x75 ft, grit 400 100/box AM0007
SiC Rolls, 3”x75 ft, grit 600 100/box AM0008

SILICON CARBIDE • WET OR DRY • C WEIGHT

DESCRIPTION UNIT CATALOG NO.
SiC Discs, 4”x36”, grit 50 10/box AM0001
SiC Discs, 4”x36”, grit 80 10/box AM0002
SiC Discs, 4”x36”, grit 100 10/box AM0003
SiC Discs, 4”x36”, grit 120 10/box AM0004
SiC Discs, 4”x36”, grit 180 10/box AM0005
SiC Discs, 4”x36”, grit 240 10/box AM0006
SiC Discs, 4”x36”, grit 320 10/box AM0007
SiC Discs, 4”x36”, grit 400 10/box AM0008
SiC Discs, 4”x36”, grit 600 10/box AM0009
SiC Discs, 4”x36”, grit 800 10/box AM0010
SiC Discs, 4”x36”, grit 1000 10/box AM0011

ZIRCONIA ALUMINA • WET OR DRY • PSA BACK

DESCRIPTION UNIT CATALOG NO.
ZIR AL Discs, 8”xNH, Plain back, grit 60 25/box AM0314 PB
ZIR AL Discs, 8”xNH, Plain back, grit 120 25/box AM0315 PB
ZIR AL Discs, 8”xNH, Plain back, grit 180 25/box AM0316 PB
ZIR AL Discs, 8”xNH, Plain back, grit 220 25/box AM0317 PB

ZIRCONIA ALUMINA • WET OR DRY • 12 Inch (305 mm) • No Hole • PSA Back

DESCRIPTION UNIT CATALOG NO.
ZIR AL Discs, 12”xNH, PSA back, grit 60 25/box AM0357
ZIR AL Discs, 12”xNH, PSA back, grit 120 25/box AM0358

ZIRCONIA ALUMINA • WET OR DRY • 14 Inch (356 mm) • No Hole • PSA Back

DESCRIPTION UNIT CATALOG NO.
ZIR AL Discs, 14”xNH, PSA back, grit 60 25/box AM0280
ZIR AL Discs, 14”xNH, PSA back, grit 120 25/box AM0281
### CROSS REFERENCE

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<td>AM0299</td>
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<td>SiC Discs, 10&quot;xNH, PSA back, grit 1200</td>
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### ABRASIVE DISCS

#### 10 Inch (254 mm) No Hole

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<td>SiC Discs, 12&quot;xNH, plain back, grit 120</td>
<td>100/box</td>
<td>AM2102</td>
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#### 12 Inch (305 mm) Diameter No Hole

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<td>SiC Discs, 12&quot;xNH, PSA back, grit 80</td>
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<td>SiC Discs, 12&quot;xNH, PSA back, grit 120</td>
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<td>AM0248</td>
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<td>SiC Discs, 12&quot;xNH, PSA back, grit 240</td>
<td>100/box</td>
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<tr>
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<td>AM0253</td>
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<tr>
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**SIlicON CARBIDE • WET OR DRY • PSA BACK**

<table>
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**SIlicON CARBIDE • WET OR DRY • PLAIN BACK**

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<td>SiC Discs, 10&quot;xNH, Plain back, grit 800</td>
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<td>SiC Discs, 10&quot;xNH, Plain back, grit 1200</td>
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### ABRASIVE STRIPS

**SILICON CARBIDE • WET OR DRY • PSA BACK**

3 Inch (76 mm) x 11 Inch (279 mm) • C Weight

<table>
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<td>SiC 3&quot;x11&quot;, grit 320</td>
<td>100/Pkg.</td>
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<td>SiC 3&quot;x11&quot;, grit 400</td>
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**SILICON CARBIDE • WET OR DRY • PSA BACK**

6 Inch (152 mm) x 11 Inch (279 mm) • C Weight

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### ABRASIVE DISCS

**SILICON CARBIDE • WET OR DRY • PLAIN BACK**

8 Inch (203 mm) Diameter • No Hole • C Weight

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**SILICON CARBIDE • WET OR DRY • PLAIN BACK**

8 Inch (203 mm) x 1/2 Inch (13 mm) Hole • C Weight

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<td>AM0243</td>
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### ALPHAGRAB® DISC

The AlphaGrab® is a two sided abrasive disc grit grabber. One side attaches to your working wheel while the other side will adhere non-coated working discs such as abrasive coated papers. The AlphaGrab® lasts up to 30 changes and is an economical way to save you both time and money. These are available for all uncoated size papers, 8", 10" and 12", and are packaged in quantities of 10 discs per package.

<table>
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<td>AlphaGrab® Disc, 12&quot;</td>
<td>10/Pkg.</td>
<td>AM1635</td>
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