**MAGNETS IN LIQUID, CERAMIC MAGNETS & TESTING**

### Mag-Maid Coolant Clean Out Tool

This powerful Rare Earth clean-up tool safely removes metal chips and debris from machinery and work areas. The large comfortable handle is attached to Rare Earth magnets inside the seam-welded, stainless steel tube. To clean this tool, pull the handle away from the stainless steel tube. Collected scrap metal will follow the magnet up the tube until it hits the stripper washer. Once the magnet is past the stripper washer, the magnetic influence will dissipate and the metal falls off. No need to pull or wipe off collected metal.

**Features**
- Maximum temperature 180°F (82°C)
- Seam-welded, .053" thick tube prevents denting
- Large grip handle

**Dimensions**

<table>
<thead>
<tr>
<th>Diameter (in)</th>
<th>Shaft Length (in)</th>
<th>OAL (in)</th>
<th>Weight (lbs)</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>15</td>
<td>19.25</td>
<td>1.25</td>
<td>MM1500EZ</td>
</tr>
<tr>
<td>1</td>
<td>36</td>
<td>40.25</td>
<td>2.75</td>
<td>MM3600EZ</td>
</tr>
</tbody>
</table>

### Magnetic Viewing Film

This film allows you to identify the magnetic field patterns of magnetic materials and assemblies. The viewing film can be used to check for damage to the magnet material within most types of magnet assemblies. Simply hold the film against the surface of any magnet and the pattern of the magnetic field is revealed. The 3" square sheets are reusable.

**Model No. XX0044**

### Magnetic Pole Tester

Use this handy Magnetic Pole Tester, with pocket, clip to test for the presence of magnetic fields. Perfect for Coil testing, Post-magnetization polarity checks, Electric motor assembly, installation of magnetic clamping blocks, error analysis, quality control & more. Sensitivity: ±15 mT on/off hysteresis. Operating temperature range: 0°C to +50°C

Replacement Battery: 4 x 1.5V button cell, LR44.

### Ceramic Magnet Material

Ceramic magnets are a non-metallic, non-conductive, hard, brittle material compound of iron oxide, Strontium Ferrite and small quantities of other metal oxides that can only be cut with a diamond wheel.

**Ceramic Features**
- Low cost, high energy material
- Performs best at temperatures below 480°F (249°C)
- Difficult to grind or drill, cannot be machined utilizing EDM
- Tolerance ±2% on O.D., Length & Width. ±.005" on Thickness

**Ceramic Disc Material**

<table>
<thead>
<tr>
<th>Hold - lbs (kg)</th>
<th>Dia. (in)</th>
<th>Ln. (in)</th>
<th>Wt. (lbs)</th>
<th>Grade</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.24 (1.92)</td>
<td>0.875</td>
<td>1.000</td>
<td>0.11</td>
<td>5</td>
<td>7861AX1CS</td>
</tr>
</tbody>
</table>

**Ceramic Ring Material**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0.36 (0.16)</td>
<td>0.750</td>
<td>0.271</td>
<td>0.250</td>
<td>0.022</td>
<td>8</td>
<td>F1409</td>
</tr>
<tr>
<td>0.75 (0.34)</td>
<td>1.230</td>
<td>0.885</td>
<td>0.431</td>
<td>0.044</td>
<td>8</td>
<td>F1407</td>
</tr>
<tr>
<td>3.5 (1.58)</td>
<td>1.723</td>
<td>0.705</td>
<td>0.250</td>
<td>0.082</td>
<td>8</td>
<td>F1405</td>
</tr>
<tr>
<td>8.5 (4.31)</td>
<td>2.800</td>
<td>1.203</td>
<td>0.590</td>
<td>0.466</td>
<td>8</td>
<td>710006</td>
</tr>
<tr>
<td>5.5 (2.48)</td>
<td>2.925</td>
<td>1.250</td>
<td>0.330</td>
<td>0.600</td>
<td>8</td>
<td>431004</td>
</tr>
<tr>
<td>20.5 (9.30)</td>
<td>5.250</td>
<td>2.312</td>
<td>0.750</td>
<td>2.408</td>
<td>8</td>
<td>455005</td>
</tr>
</tbody>
</table>

### Salvage Magnets

**Features**
- Retrieves tools, parts, key rings, fishing tackle & more
- Powerful ceramic magnets for wet or dry applications
- HDR3045 has a durable stainless steel case and can retrieve broken drill bits from oil & water wells

**Clean-Out Retrievers**

**Features**
- Retrieve ferrous metal items from tanks, acid baths, oil reservoirs, heat bake ovens, etc.
- Alnico Magnet is attached to a 48 inch wood handle
- Maximum temperature 300°F (148°C)

**Ceramic Rectangular Material**

<table>
<thead>
<tr>
<th>Hold - lbs (kg)</th>
<th>Th. (in)</th>
<th>Wd. (in)</th>
<th>Ln. (in)</th>
<th>Wt. (lbs)</th>
<th>Grade</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0 (2.72)</td>
<td>0.375</td>
<td>0.875</td>
<td>1.875</td>
<td>0.11</td>
<td>8</td>
<td>5C45S</td>
</tr>
<tr>
<td>5.0 (2.26)</td>
<td>0.250</td>
<td>1</td>
<td>2</td>
<td>0.10</td>
<td>8</td>
<td>250x1x2C8</td>
</tr>
<tr>
<td>7.0 (3.17)</td>
<td>0.500</td>
<td>1</td>
<td>2</td>
<td>0.15</td>
<td>8</td>
<td>500x1x2C8</td>
</tr>
<tr>
<td>9.0 (4.08)</td>
<td>0.750</td>
<td>1</td>
<td>2</td>
<td>0.25</td>
<td>8</td>
<td>750X1X2C8</td>
</tr>
<tr>
<td>11.0 (4.99)</td>
<td>1.000</td>
<td>1</td>
<td>2</td>
<td>0.35</td>
<td>8</td>
<td>1X1X2C8</td>
</tr>
<tr>
<td>15.0 (6.80)</td>
<td>1.000</td>
<td>2</td>
<td>2</td>
<td>0.70</td>
<td>8</td>
<td>1X2X2C8</td>
</tr>
<tr>
<td>6.5 (2.95)</td>
<td>0.187</td>
<td>4</td>
<td>4</td>
<td>0.75</td>
<td>8</td>
<td>187X4X4C5</td>
</tr>
<tr>
<td>8.5 (3.85)</td>
<td>0.250</td>
<td>4</td>
<td>6</td>
<td>1.00</td>
<td>8</td>
<td>250X4X6C6</td>
</tr>
<tr>
<td>8.0 (3.22)</td>
<td>0.312</td>
<td>4</td>
<td>4</td>
<td>0.83</td>
<td>8</td>
<td>312X4X4C5</td>
</tr>
<tr>
<td>10.5 (4.76)</td>
<td>0.375</td>
<td>4</td>
<td>4</td>
<td>1.00</td>
<td>8</td>
<td>375X4X4C5</td>
</tr>
<tr>
<td>14.0 (6.35)</td>
<td>0.500</td>
<td>4</td>
<td>6</td>
<td>2.00</td>
<td>8</td>
<td>500X4X6C8</td>
</tr>
<tr>
<td>18.5 (8.39)</td>
<td>0.750</td>
<td>4</td>
<td>6</td>
<td>3.00</td>
<td>8</td>
<td>750X4X6C8</td>
</tr>
<tr>
<td>23.5 (10.66)</td>
<td>1.000</td>
<td>4</td>
<td>6</td>
<td>4.00</td>
<td>8</td>
<td>1X4X6C8</td>
</tr>
</tbody>
</table>

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