TECHNICAL DATA SHEET

Electric Fuseheads
Australia

Description
Electric fuseheads are the primary ignition source used in electric detonators. Electric fuseheads comprise a fusible resistance wire attached to conductive strips on an insulating support.

The resistance wire is surrounded by an ignition compound and lead wires are soldered to the free end of the conductive strips.

Technical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusehead Resistance</td>
<td>0.75 – 1.05 Ohm</td>
</tr>
<tr>
<td>Lead wire length</td>
<td>1.0m</td>
</tr>
<tr>
<td>Maximum no fire current</td>
<td>0.3 Amp</td>
</tr>
<tr>
<td>Minimum all fire current</td>
<td>0.55 Amp</td>
</tr>
<tr>
<td>Functioning time</td>
<td>1.8ms @ 2A</td>
</tr>
<tr>
<td>Maximum No Fire Energy</td>
<td>1.5 mJ/Ohm</td>
</tr>
<tr>
<td>Minimum All Fire Energy</td>
<td>3.5 mJ/Ohm</td>
</tr>
</tbody>
</table>

Application
Fuseheads, combined with a Blasting Rheostat, provide an effective method of testing generator-type and battery powered capacitor-discharge exploders.

Recommendations for Use
Fuseheads are best used with a Blasting Rheostat to test generator-type, and some battery powered, capacitor-discharge exploders. With generator-type exploders, two electric fuseheads should be coupled up in series to the rheostat.

The rheostat terminals selected must correspond to the number of detonators for which the exploder is rated. With battery powered exploders, the number of fuseheads in series should be increased to at least size and preferably ten (see Fig 2).

Safety
Electric Fuseheads contain sensitive components and must be handled with care and respect at all times. Firing Fuseheads can result in noise and particle ejection. Suitable eye and ear protection should be worn when using.
Electric Fuseheads

Storage

They should be stored in a container where the effect of initiation will be confined to the container with no fragments being projected, or fire hazard created.

Explosives Classification

- **Authorised Name:** ELECTRIC FUSE
- **Proper Shipping Name:** IGNITERS
- **UN No.:** 0454
- **Class:** 1.4s

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Emergency Telephone Numbers

- **Within Australia:** 1800 033 111
- **Outside Australia:** 61 3 9663 2130

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Figure 2  Testing Ausdet 50 shot Exploder with Electric Fuseheads and a Blasting Rheostat.