

**DESCRIPTION**

Daveydet® P Detonators are low incendive, short delay detonators approved for use in underground coal mines. They are an electric delay detonator containing a sleeved fusehead, a delay element (except for 0 delay), a priming composition and a Tetryl base charge inside a cylindrical copper shell. A pair of copper leg-wires, covered by PVC insulation, are soldered to the fusehead and crimped into the detonator shell with a PVC closure plug. A tag indicating the detonator delay number is attached to one leg wire. The leg wires are kept shorted by a twist at a bared section near the free ends.

Daveydet® P Detonators are distributed as Carrick II detonators in New Zealand and Australia by Global Seismic Solutions

**SAFETY FEATURES**

Daveydet® P Detonators incorporate a polyethylene sleeve around the fusehead to minimise the possibility of static discharge between the fusehead and the detonator shell.

Daveydet® P Detonators are supplied in tight coils with the ends of the leg wires shorted. This configuration safeguards against accidental initiation by stray currents or radio frequency transmissions. However Daveydet® P detonators used in the vicinity of radio frequency transmitters must comply with the “Safe distances” specified in Australian Standard 2187, Part-2 1993

Daveydet® P Detonators are supplied in Class 1.4S packaging and have UN Number 0456.

**APPLICATION**

Daveydet® P Detonators are especially designed to be used in gaseous environments like those found in underground coal mines.

Daveydet® P Detonators are compatible with all permitted types of explosives.

Daveydet® P Detonators can be used in wet conditions under moderate heads of water if adequate precautions are taken to insulate the leg-wire connections.

**TECHNICAL PROPERTIES**

**DETONATOR**

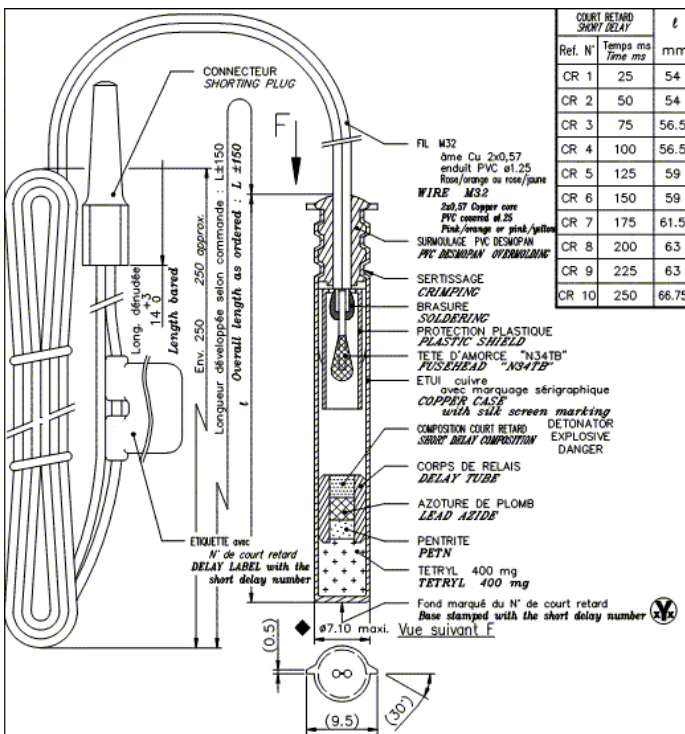
- Shell: copper
- Base Charge: 400 mg Tetryl
- Delay Number: 0 to 10 stamped on base
- Fusehead characteristics : Low Intensity N34 TB
- Fusehead resistance: 1 Ohm
- No fire current (I<sub>0</sub>): 0.26 A
- All fire current (I<sub>1</sub>): 0.8 A
- Min. fire energy (W<sub>1</sub>): 3 mJ/Ω
- ESD resistance (Classe I) : 0.43 mJ/Ω (pin to pin)  
0.75 mJ/Ω (pin to case)

**LEG WIRES**

- Length: 3.6 m
- Conductor: Copper
- Diameter: 0.57 mm
- Insulation: PVC
- Resistance: 0.13 ohm/m
- Colours: 0 delay– pink and orange  
Other Delays – pink and yellow

**Delay Times**

<b>Delay #</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Time(ms)</b>	<b>0</b>	<b>25</b>	<b>50</b>	<b>75</b>
<b>Delay #</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>Time(ms)</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>175</b>
<b>Delay #</b>	<b>8</b>	<b>9</b>	<b>10</b>	
<b>Time(ms)</b>	<b>200</b>	<b>225</b>	<b>250</b>	



<p><b>SOCIETE DAVEY BICKFORD</b></p>	<p>TECHNICAL DATA SHEET <b>Daveydet® P Detonators</b></p>	<p>Date 20008/07/25 Ref : MCTP / PG / 08 – 0212</p>
--	---	---

## RECOMMENDATIONS FOR USE

Daveydet® P Detonators should only be used by personnel who have been correctly trained in the handling and use of explosives.

Daveydet® P Detonators contain sensitive components and must be handled with care and respect at all times.

Daveydet® P Detonators used inside blastholes should always be secured inside suitable primers which fully enclose the detonator shell to protect it from abrasion or impact damage during charging.

Daveydet® P Detonators are tested for continuity and resistance after assembly but each unit should be checked before use if required by local statutory Regulations

An approved circuit tester and a suitable container to enclose the detonator should be used when testing detonators.

The resistance of the circuit should be measured using an approved tester to confirm that the exploder or firing equipment available can supply sufficient energy to reliably initiate all detonators in the circuit. Single series connections are recommended to simplify hook-up and avoid the need to “balance” parallel circuits.

Daveydet® Detonators are supplied with the leg-wires shorted together and should remain this way until final hook up. Before touching bare legwires operators should make contact with an effective earthed point to disperse any static electrical charges which may have accumulated during charging. After joining the detonator legwires together the bare connection should be insulated to minimise the possibility of current leakage from the circuit.

Reasonable care must be taken to prevent damage to the leg wires during handling. If the plastic insulation is damaged in a way which exposes the wire core within, misfire may result due to current leakage to earth.

Daveydet® Detonators are compatible with all types of permitted explosives. For security the leg wires should be half hitched around the primer cartridge to prevent separation during charging.

Detonators should only be used by personnel who have been properly trained in safe and correct handling procedures.

## PACKAGING

Daveydet® P Detonators are packed into inner cardboard cartons. Each inner carton contains 40 detonators. All detonators with a carton have the same delay. Ten inner cartons are enclosed in an UN certified outer fibreboard case. External case dimensions are 430mm x 400mm x 320mm.

## STORAGE AND HANDLING

Daveydet® P Detonators should be stored in a cool, dry, ventilated magazine licensed for Class 1.1B products.

Delay detonators deteriorate with age. Where accurate firing times are required batches of detonators more than 2 years old should be sampled to check firing times. Batches of detonators more than 3 years old should be sampled to check for function prior to use.

## DISCLAIMER

The indications and recommendations contained in this document are based on manufacturer’s research and tests to this date. The manufacturer cannot anticipate all of the possible applications for its products. Therefore, the products described hereby are sold under the only warranty to be in conformity with the specifications stated in this document and to be in compliance with the agreements granted by the French Ministry of Industry.