

## Dynadet™-C3-25ms Sweden



### Description

The electric detonator millisecond (MS) series Dynadet™-C3-25ms serves to initiate commercial explosives.

Dynadet™-C3-25ms detonators are manufactured in Gyttorp, Sweden (SE001) and use the NPED technology (Non Primary Explosives Detonator). NPED detonators use a patented deflagration to detonation process and therefore do not need primary explosives for initiation of the base charge. The detonator is free of lead acid and provides the highest degree of safety against impact during handling.

The delay series offers 20 intervals and provides flexibility to control the firing sequence.

The detonators are delivered with an attached connecting sleeve for simple and safe coupling. The insulation on the detonator leads is made of polyethylene providing good resistance against friction and cutting damage while being environmentally friendly.

### Application

Dynadet™-C3-25ms is used for the initiation of commercial explosives in quarrying and construction works.

### Recommendations for Use

- Never use instantaneous electric detonators (with 0 ms delay) with the Dynadet™-C3-25ms series.
- Not to be used in a gaseous environment or where there is danger of coal dust explosion.

### Technical Properties

Product	Dynadet™-C3-25ms
Shell	Aluminium
Base Charge	RDX / PETN
Output strength	REF. DET. #3
Delay intervals	1 – 20 in 25 ms steps
Delay times (ms)	25 - 500
Type of sensitivity	Class 3
No-fire-impulse (mJ/ Ω)	≤80
All-fire-impulse (mJ/ Ω)	≥140
No-fire-current (A)	≤1.2
All-fire current (A)	≥3.5
Max. hydrostatic pressure	3 bar / 7 days
<b>Wire</b>	
Insulation	PE
Wire colour	green / grey
Wire type	Different alloys and diameters, depending on wire lengths
Wire diameter (mm)	
Insulation diameter (mm)	1.60 ±0.05
Tensile strength (N)	4m → min. 45
	6- 16 m → min. 55
Pull-out strength (N)*	min. 40
Total resistance (Ω)	3.6 ±0.3 (all lengths)
Wire ends	Fixed connecting sleeve
Wire length (m)	4, 6, 10, 16

\*Testing according to EN13763.7

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### Packaging

Dynadet™-C3-25ms electric detonators are available in the following packaging:

#### 1.1B

Wire length m	No. of detonators per bag	No. of detonators per box	Gross weight per box kg	Net weight per box kg	Net explosive weight per box kg
4	10	250	10.8	9.5	0.235
6	10	170	12.1	10.7	0.160
10	5	130	13.1	11.8	0.122
16	5	80	12.6	11.3	0.075

#### 1.4S

Wire length m	No. of detonators per bag	No. of detonators per box	Gross weight per box kg	Net weight per box kg	Net explosive weight per box kg
4	10	200	10.6	7.2	0.188

Other lengths maybe available upon request. Please contact your local Orica representative for further information.

### Storage and Handling

#### Product Classification

Authorised Name: Dynadet™-C3-25ms  
Proper Shipping Name: Detonators, electric  
UN No.: 0030 0456  
Class Code: 1.1B 1.4S  
EC Type Certificate: 0589.EXP.2782/18

Dynadet™-C3-25ms should be stored in a suitably licensed magazine for Class 1.1B or 1.4S explosives.

Detonators are best stored at ambient temperatures of 0 °C to 40 °C.

Dynadet™-C3-25ms have a storage life of 2 years in stable, temperate conditions.

Dynadet™-C3-25ms may be used at temperatures from -25 °C to a maximum of 50 °C. If your application requires you to operate outside this temperature range please contact your local Orica Account Manager.

### Disposal

Disposal of explosives materials can be hazardous. Methods for safe disposal of explosives may vary depending on the user's situation. Please contact a local Orica representative for information on safe practices.

### Safety

Always follow requirements for protection against hazardous electrical sources when using Dynadet™-C3-25ms detonators.

Care should be taken not to cause initiation by intense impact, friction or heat.

### Training

This Technical Data Sheet is for information only.

Electric detonators should only be used by personnel who have been properly trained to use this system.

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# Dynadet™

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