

Dynadet™-C1-25ms Sweden



Description

The electric delay detonator series Dynadet™-C1-25ms serves to initiate commercial explosives.

Dynadet™-C1-25ms 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 azide and provides the highest degree of safety against impact during handling.

The delay series offers 28 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™-C1-25ms 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™-C1-25ms series.
- Not to be used in a gaseous environment or where there is danger of coal dust explosion.

Technical Properties

Product	Dynadet™-C1-25ms	
	NT	ET
Shell	Aluminium	
Base Charge	RDX / PETN	
Output strength	REF. DET. #3	
Type of sensitivity	Class 1	
No-fire-impulse (mJ/ Ω)	≤3	
All-fire-impulse (mJ/ Ω)	≥5	
No-fire-current (A)	≤0.25	
All-fire current (A)	≥1.0	
Max. hydrostatic pressure	3 bar / 7 days	
Wire		
Insulation	PE	
Wire colour	yellow / green	
Wire type	Copper	Steel
Wire diameter (mm)	0.60	0.57
Insulation diameter (mm)	1.60 ±0.05	
Tensile strength (N)	min. 55	min. 85
Pull-out strength (N)*	min. 40	min. 40
Wire length (m)	4, 6, 10, 15, 20, 25	4

*Testing according to EN13763.7

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Delay Range

Delay #	Nominal Delay Time (ms)	Max. Std. Deviation (ms)	Delay #	Nominal Delay Time (ms)	Max. Std. Deviation (ms)	
1	25	8.3	15	375	8.3	
2	50		16	400		
3	75		17	425		
4	100		18	450		
5	125		19	475		
6	150		20	500		
7	175		24	600		33.3
8	200		32	800		
9	225		40	1000		
10	250		8.3	48		1200
11	275	56		1400		
12	300	64		1600		
13	325	72		1800		
14	350		80	2000	66.7	

Packaging

Dynadet™-C1-25ms electric detonators are available in the following packaging:

NT

Wire length m	Total Resistance Ω	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 (Cu)	1.6 ±0.3	10	250	11.5	10.3	0.235
6 (Cu)	1.9 ±0.3	10	170	11.2	9.9	0.160
10 (Cu)	2.4 ±0.3	5	130	13.1	11.8	0.122
15* (Cu)	3.0 ±0.3	5	90	13.2	12.0	0.085
20* (Cu)	3.6 ±0.4	5	75	14.3	13.1	0.071
25* (Cu)	4.2 ±0.4	5	60	14.1	12.8	0.056

* Non-standard products. Please contact your local Orica representative for further information on delivery times.

ET

Wire length m	Total Resistance Ω	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 (Fe)	4.5 ±0.4	10	250	10.8	9.5	0.235

Storage and Handling

Product Classification

Authorised Name: Dynadet™-C1-25ms
 Proper Shipping Name: Detonators, electric
 UN No.: 0030
 Class Code: 1.1B
 EC Type Certificate: 0589.EXP.2782/18

Dynadet™-C1-25ms should be stored in a suitably licensed magazine for Class 1.1B explosives.

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

Dynadet™-C1-25ms have a storage life of 2 years in stable, temperate conditions.

Dynadet™-C1-25ms 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™-C1-25ms 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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