



PRODUCT INFORMATION

BROCHURE

COAL★STAR



Coal★Star 30 are permissible millisecond electric detonators. These detonators are specifically designed for use in environments where there is an ignition hazard associated with air-methane and air-coal dust mixtures. Accuracy of delay times eliminates any overlap and contributes significantly to better breakage and vibration control when properly used. The timing range consists of 17 delay numbers.

BENEFITS

- Multi-step quality control program for testing of components and finished products to ensure reliable field performance.
- Detonators are easy to handle, the yellow color of leg wires making it easier to use in underground environments with limited visibility.
- High impact protection.

PRODUCT OVERVIEW

PROPERTIES

Delay sequence

Delay #	0	1	2	3	4	5	6	7	8
Nominal delay (ms)	0	30	60	90	120	150	180	210	240
Delay #	9	10	11	12	13	14	15	16	X
Nominal delay (ms)	270	300	330	360	390	420	450	480	X

FIRING PARAMETERS

Type	Class I	Class II	Class III
Fusehead resistance	1.50 - 1.90 Ω	0.40 - 0.80 Ω	0.16 - 0.20 Ω
No fire current	0.18 A	0.45 A	1.2 A
No fire energy	0.8 mJ/ Ω	8 mJ/ Ω	80 mJ/ Ω
All fire current	1 A	1.5 A	3.5 A
All fire energy in series	2.5 mJ/ Ω	16 mJ/ Ω	140 mJ/ Ω

In case of use of electric detonators in applications with a risk of initiation from stray currents, the appropriate detonator sensitivity must be chosen.

STANDARD TECHNICAL DESCRIPTION

Detonator standard shell material	Copper
Base charge	600 mg
Leg wires insulation material	PVC
Water pressure resistance	0.3 MPa / 48 hours
Temperature range for application	-30 °C < T < +60 °C
Shelf life (storage conditions)	2 years (-30 °C to 40 °C)
Label marking	Delay #, Detonator type, Delay ms, Wire length, Data matrix code (traceability)
Notified body	CE 0589
Alternative name	Instantaneous detonators: 0-N-ZB, 0-S-ZB ms detonators: DEM-N-ZB, DEM-S-ZB

STANDARD PACKAGING DETAILS

Wire length (m)	Packaging 1.4B UN 0255		Packaging 1.4S UN 0456	
	Cu ø 0.5 mm	Cu ø 0.6 mm Fe ø 0.65 mm	Cu ø 0.5 mm	Cu ø 0.6 mm Fe ø 0.65 mm
2/3	500		175	
5	300		150	

Coal★Star 30 detonators are packaged in cardboard box of outer dimension 425x305x250 mm.
Other wire lengths are possible on demand.

Contact your local Austin Powder representative for further information.

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