



# THE BLASTER'S GUIDE

A Resource for the  
Explosives and Blasting Industry

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## Seismic Product Information Bulletins

2021 Seismic PIB Catalog

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Fax: 216-464-4418

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& EVER SINCE**

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[Blasters Guide – Austin Powder Company](#)



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# E★STAR Seismic Detonators

PRODUCT INFORMATION BROCHURE

E★STAR Seismic electronic detonators have been designed to provide the precise control necessary to produce the most accurate and consistent seismic record. The E★STAR Seismic detonator may be programmed in 1-millisecond increments from one (1) millisecond up to twenty (20) seconds. using the dedicated DLG 1600-100-S Logger. Unique serial number for each E★STAR Seismic detonator provides “Cradle to Grave” traceability.

## ADVANTAGES

- 750 mg PETN base charge far exceeds the standard #8 strength detonator.
- Industry’s most user-friendly and rugged electronic seismic detonator.
- Designed to fire pattern shots up to ten detonators simultaneously.
- Legwire – HDPE insulation for added protection from current leakage. 0.8 mm diameter copper wire (#20 AWG).
- Advanced pre-fire diagnostics coupled to the communication protocol.



## PROPERTIES

E★STAR Seismic detonators contain a capacitor, a logic and timing circuit, and pyrotechnic ignition system manufactured by Austin Powder to provide a complete unit. When the capacitor is charged by the DBM 10-S Digital Blasting Machine, the internal capacitor provides the energy that initiates the “bridge wire” and subsequently detonates the base charge.



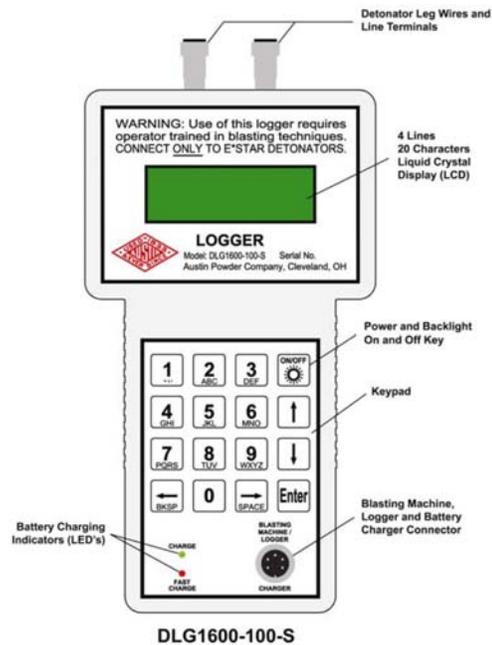
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# E★STAR Seismic Detonators

DLG1600-100S E★STAR  
Seismic Logger

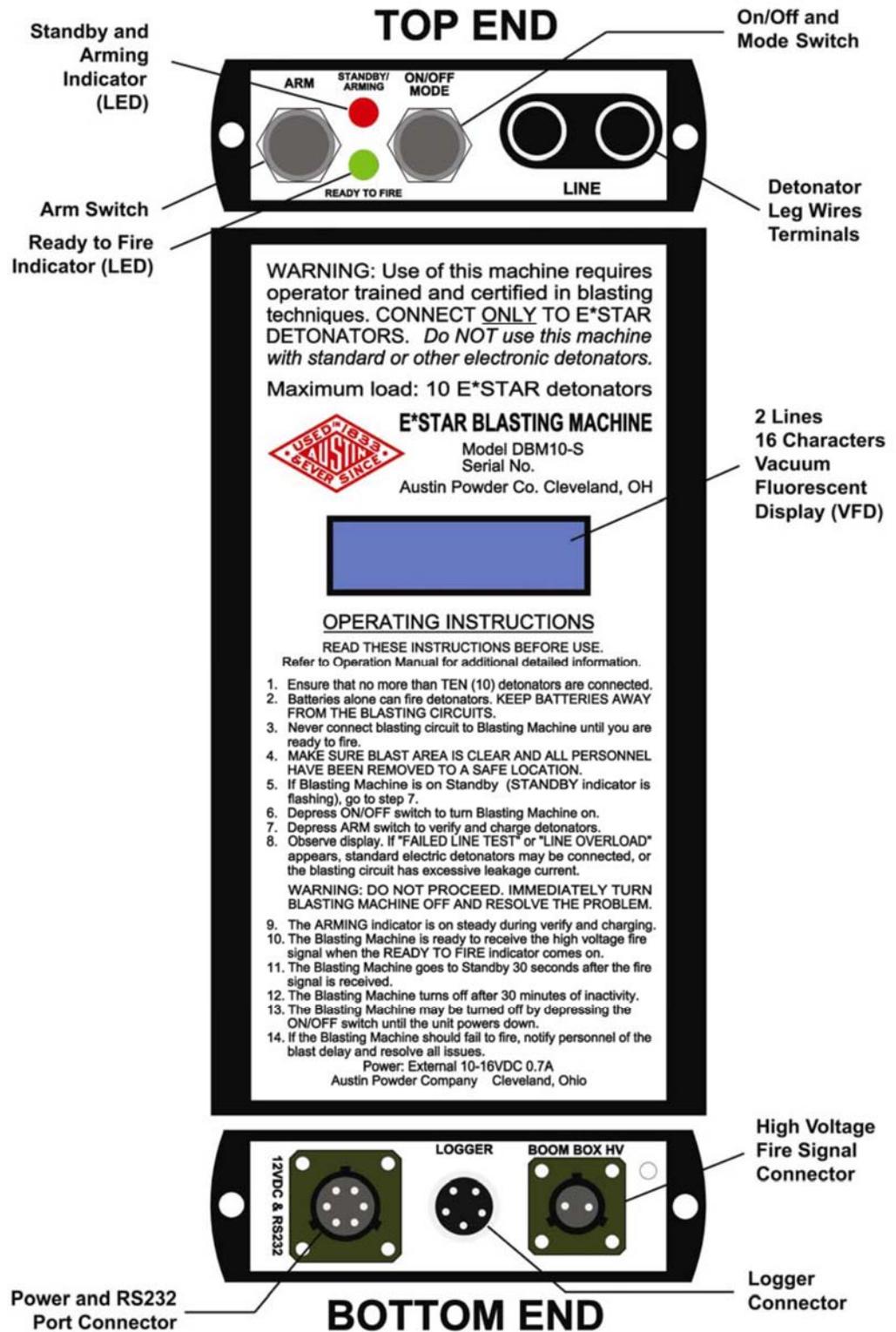


DBM 10-S Digital Blasting  
Machine



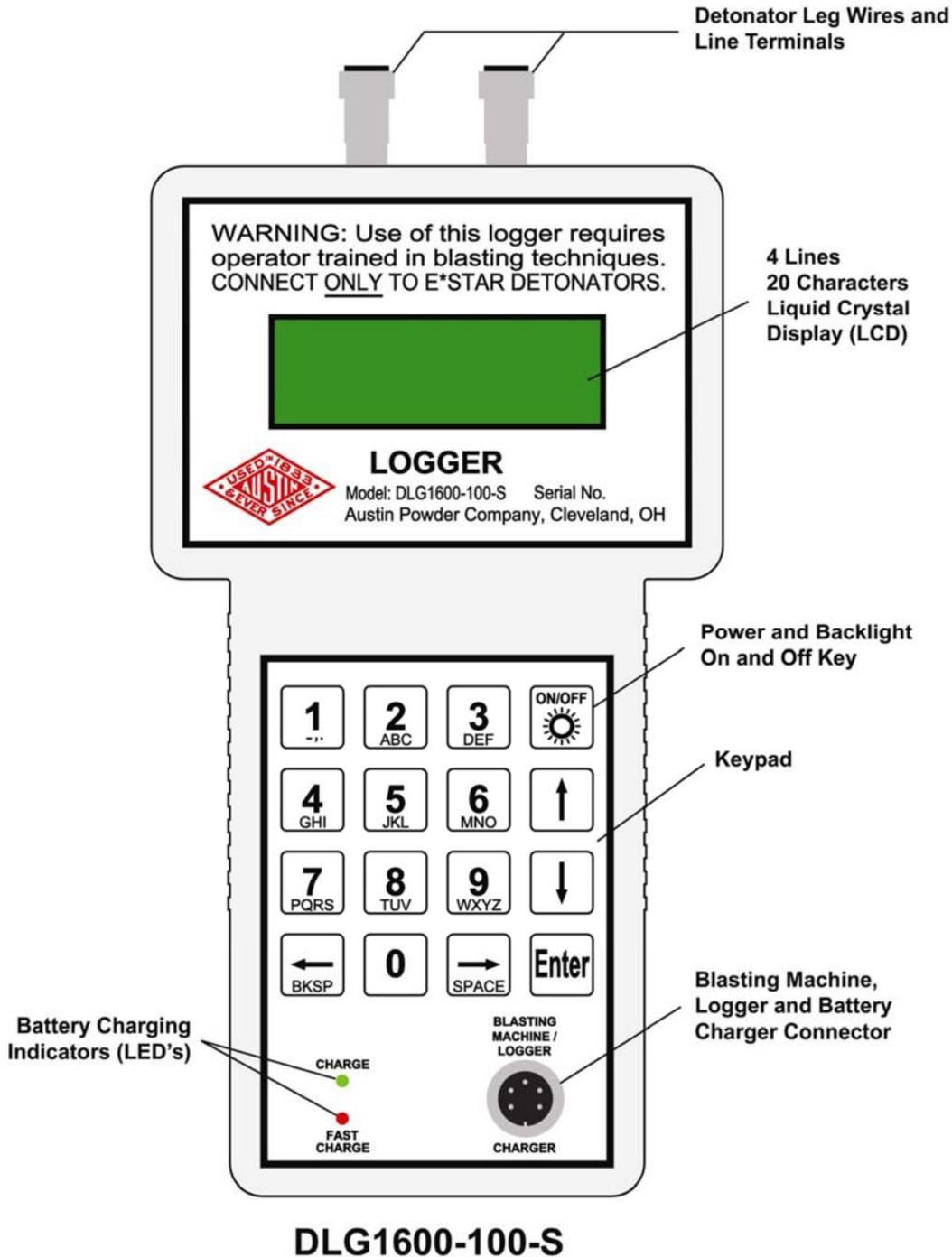
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# E★STAR DBM 10-S Digital Blasting Machine



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# E★STAR DLG 1600-100-S Seismic Logger



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# E★STAR Seismic Detonators

## REQUIRED EQUIPMENT

The use of this system requires specific training in all components. This training is in addition to the normal, required training that all blasters and blasting personnel have received.

Only equipment specifically designed for use with Austin Powder E★STAR Seismic detonators is permitted. The currently approved equipment is a DLG 1600-100-S logger and a DBM 10-S Digital Blasting Machine\* manufactured by Dan-Mar Co., Inc. An “operators” manual is to be available at all times when using this equipment.

\*Warning: The DBM 10-S Digital Blasting Machine is designed for use only with E★STAR Seismic detonators. **Do Not attempt to use this blasting machine with any other detonator.** The misuse of this blasting machine with standard electric detonators may result in instantaneous detonator initiation.

## STANDARD PACKAGING DETAILS

E★STAR Seismic Detonator Packaging					
Length		Case Wt		Case Count	Wire Configuration
[ft]	[m]	[lb]	[kg]		
25	7.6	21.52	9.77	70	Fast 8
35	10.7	24.76	11.24	60	Fast 8
45	13.7	26.03	11.82	50	Fast 8
55	16.8	25.34	11.51	40	Fast 8
65	19.8	34.12	15.49	45	Spooled
85	25.9	42.94	19.50	45	Spooled
100	30.5	49.56	22.50	45	Spooled
120	36.6	27.91	12.67	20	Spooled
140	42.7	31.83	14.45	20	Spooled
160	18.8	35.75	16.23	20	Spooled
180	54.9	39.67	18.01	20	Spooled
200	61.0	43.59	19.79	20	Spooled
220	67.1	47.51	21.57	15	Spooled
240	73.2	51.43	23.35	15	Spooled

## STANDARD TECHNICAL DESCRIPTION

Electronic programmable detonators

## STORAGE

Store in accordance with all applicable local, state, provincial and federal laws.

## SHELF LIFE

For optimum accuracy, use within five years from date of manufacture under good storage conditions.

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## TRANSPORTATION DATA

### UN CLASSIFICATION

Shipping Name: Detonators, Electric  
Class & Division: 1.4B  
ID Number: UN 0255

### US DOT REFERENCE NUMBER

EX-0103067



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# Enviroprime®

PRODUCT INFORMATION BROCHURE

Enviroprime offers the highest velocity of any commercially available explosive. The explosive contains a microbial inoculant that effectively bioremediates TNT, PETN, RDX and HMX explosives. When submerged in water for over one year, the microorganisms become active and begin to consume the explosive material.

## ADVANTAGES

- High detonation velocity produces excellent seismic pulse images.
- Anaerobic bacteria are provided in a time release form, so that they are activated only after at least one year in the subsurface environment.
- Microbial nutrients are added to provide sufficient reducing power to degrade the unexploded charge if needed, yet not interfere with the explosive energy.



## PROPERTIES

Density [g/cc]	Pressure [kb]	Water Resistance	VOD	
			[ft/s]	[m/s]
1.6	240	Excellent	27,000	8,300

## PRIMING

Use a high-strength detonator (Static★Star®, E★Star® Seismic or equivalent).



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# Enviroprime

## STANDARD PACKAGING DETAILS

Cartridge Style	Cartridge Size*		Case Count	Case Weight
	[in]	[mm]		
Plastic Threaded Cartridges	2 ¼ x 1 lb	*	50	52 lb
Plastic Threaded Cartridges	2 ¼ x 2 ½ lb	*	20	52 lb
Plastic Threaded Cartridges	2 ¼ x 5 ½ lb	*	10	57 lb
Plastic Threaded Cartridges	*	60 x ½ kg	40	21.5 kg
Plastic Threaded Cartridges	*	60 x 1 kg	20	21.5 kg
Plastic Threaded Cartridges	*	60 x 2 kg	10	21.5 kg

\* Available in other sizes upon request.

## STANDARD TECHNICAL DESCRIPTION

Cast explosive, bioremedian technology

## STORAGE

Store in accordance with all applicable local, state, provincial and federal laws.

## SHELF LIFE

Indefinite from date of manufacture under good storage conditions.

## TRANSPORTATION DATA

### UN CLASSIFICATION

Shipping Name: Boosters

Class & Division: 1.1D

ID Number: UN 0242

### US DOT REFERENCE NUMBER

EX-1993030285

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# Enviroseis®

## PRODUCT INFORMATION BROCHURE

Enviroseis is a detonator sensitive, high viscosity explosive packaged in paper shells or rigid plastic cartridges.

### ADVANTAGES

- High detonation velocity produces excellent seismic pulse images.
- Does not contain molecular explosives, nitroglycerin or perchlorates.
- Predominate detonation by-products are water vapor, carbon dioxide and nitrogen.
- Desensitizes and decomposes in shorter time period as compared to conventional seismic explosives.



### PROPERTIES

Density [g/cc]	Temperature Sensitivity	Pressure [kb]	Water Resistance	VOD	
				[ft/s]	[m/s]
1.16	-20 F / -29 C	100	Excellent	19,200	5,910

### PRIMING

Use a high-strength detonator (Static★Star®, E★Star® Seismic or equivalent).



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# Enviroseis

## STANDARD PACKAGING DETAILS

Cartridge Style	Cartridge Size		Cartridge Weight		Case Count	Case Weight	
	[in]	[mm]	[lb]	[kg]		[lb]	[kg]
Paper Tube	*	27 x 1/8 kg	.28	.13	160	44	20
Plastic Cartridge	*	51 x 1/4 kg	.55	.25	80	44	20
Plastic Cartridge	*	51 x 1/2 kg	1.1	.50	40	44	20
Plastic Cartridge	*	51 x 1 kg	2.2	1.00	20	44	20
Plastic Cartridge	2 1/4 x 1.1 lb	*	1.1	.50	40	44	20
Plastic Cartridge	2 1/4 x 2 1/2 lb	*	2.5	1.13	20	50	22.7
Plastic Cartridge	2 1/4 x 5 lb	*	5.0	2.27	10	50	22.7
Plastic Cartridge*	*	60 x 1/2 kg	1.1	.50	40	44	20
Plastic Cartridge*	*	60 x 1 kg	2.2	1.00	20	44	20
Plastic Cartridge*	*	60 x 2 kg	4.4	2.00	10	44	20

\* 60 mm Plastic Cartridge has a threaded fast lock connector.

## STANDARD TECHNICAL DESCRIPTION

Detonator sensitive emulsion

## STORAGE

Store in accordance with all applicable local, state, provincial and federal laws.

## SHELF LIFE

One year from date of manufacture under good storage conditions.

## TRANSPORTATION DATA

### UN CLASSIFICATION

Shipping Name: Explosive, Blasting, Type E

Class & Division: 1.1D

ID Number: UN 0241

### US DOT REFERENCE NUMBER

EX-9305177

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# Seis-Gel™

PRODUCT INFORMATION BROCHURE

Seis-Gel is a high velocity, 60% seismic explosive. The special formulation of this nitroglycerin based product assures reliable detonation after prolonged immersion under high hydrostatic pressures. Seis-Gel is characterized by high velocity and consistent performance under severe winter conditions or in hot, humid areas.

## ADVANTAGES

- Detonates consistently to produce a sharp pulse of seismic energy.
- Available in plastic threaded cartridges or paper shell.
- Ideal for deep hole work and prolonged sleep time.



## PROPERTIES

Density [g/cc]	Pressure [kb]	Water Resistance	VOD	
			[ft/s]	[m/s]
1.5	115	Excellent	20,000	6,100

## PRIMING

Use a high-strength detonator (Static★Star, E★Star Seismic or equivalent).



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# Seis-Gel

## PACKAGING

Cartridge Style	Cartridge Size*		Case Count	Case Weight
	[in]	[mm]		
Paper Shell	*	51 x ¼ kg	80	20 kg
Paper Shell	*	51 x ½ kg	40	20 kg
Paper Shell	*	51 x 1 kg	20	20 kg
Paper Shell	*	51 x 2 kg	10	20 kg
Plastic Threaded Cartridge	2 ¼ x 1 lb	*	50	50 lb
Plastic Threaded Cartridge	2 ¼ x 2 ½ lb	*	20	50 lb
Plastic Threaded Cartridge	2 ¼ x 5 lb	*	10	50 lb
Plastic Threaded Cartridge	*	60 x ½ kg	40	20 lb
Plastic Threaded Cartridge	*	60 x 1 kg	20	20 lb
Plastic Threaded Cartridge	*	60 x 2 kg	10	20 lb

## STANDARD TECHNICAL DESCRIPTION

60% high velocity seismic dynamite

## STORAGE

Store in accordance with all applicable local, state, provincial and federal laws.

## SHELF LIFE

Two years from date of manufacture under good storage conditions.

## TRANSPORTATION DATA

### UN CLASSIFICATION

Shipping Name: Explosive, Blasting, Type A

Class & Division: 1.1D

ID Number: UN 0081

### US DOT REFERENCE NUMBER

EX-1984110031

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# Seismic Detonating Cord

PRODUCT INFORMATION BROCHURE

Austin Powder manufactures a wide variety of detonating cord to meet the requirements of the seismic industry. Detonating cord is used to initiate detonator sensitive seismic explosives. Detonating cord is also used to provide a path of initiation for non-electric initiation. Detonating cord has a core of PETN (pentaerythritol tetranitrate) encased in multiple polypropylene yarns, over-extruded with a polyethylene jacket and high strength textile yarns.

## ADVANTAGES

- Water and abrasion resistant.
- High tensile strength.
- Color coded for easy identification.
- Electronically and mechanically inspected.
- Insensitive to extraneous current.
- Assures reliable non-electric initiation.
- Ideally suited for use with Static★Star.



## STANDARD TECHNICAL DESCRIPTION

**Lite Line®** : Downline under all but the most severe conditions.

**A-Cord™** : Small, medium and large hole downlines.

**50 Reinforced™** : Excellent general purpose detonating cord for reliable blast initiation under virtually all conditions.

**100 Grain** : All detonating cords are available with "FS" (*Flash Suppressant outer jacket*) upon request.



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# Seismic Detonating Cord

## PROPERTIES and STANDARD PACKAGING DETAIL

Product Name	Grain Load		Outside Diameter [in]	Tensile Strength [lb]	Case Count	Weight [lb]	Color
	[gr/ft]	[g/m]					
Lite Line	15	3.2	0.155 +/- 0.015	230	(2) 2000' Spools	30	Pink
A-Cord	25	5.3	0.165 +/- 0.015	230	(2) 1000' Spools	22	Green
50 Reinforced	50	10.6	0.197 +/- 0.015	250	(2) 1000' Spools	30	Yellow
100 Grain	100	20.0	0.220 +/- 0.020	175	(1) 1000' Spool	57	Red

### STORAGE

Store in accordance with all applicable local, state, provincial and federal laws.

### SHELF LIFE

Five years from date of manufacture under good storage conditions.

### TRANSPORTATION DATA

#### UN CLASSIFICATION

Shipping Name: Cord, Detonating

Class & Division: 1.1D

ID Number: UN 0065

#### US DOT REFERENCE NUMBER

EX-9303282

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# Seisprime™

## PRODUCT INFORMATION BROCHURE

Seisprime is formulated of a composite of high density, high velocity molecular explosives. Seisprime is engineered to produce over 240 kilo bars of detonation pressure. The rigid threaded plastic Seisprime cartridge is designed to accept an anchor point or top anchor, and is provided with two detonator wells. Seisprime has the longest “sleep time” of any commercial seismic explosive. The formulation suits the requirements of mini-hole, as well as deep hole seismic exploration. Use a high-strength seismic detonator of 720mg PETN or greater for reliable initiation.

### ADVANTAGES

- 24,500 fps detonation velocity produces excellent seismic pulse images.
- Formulated to achieve a higher detonation temperature and lower post detonation gas production than standard seismic pentolite, dynamites or emulsions.
- Does not contain nitroglycerine or perchlorates.
- Full function reliability in all typical geophysical hole depths/water conditions.



### PROPERTIES

Velocity of Detonation (mps / fps)	Detonation Pressure* (kilo bars)	Total Gas Generation* (liters / kg)	Energy* (MJ/kg)	Density (grams/cc)	Water Resistance
7,538 / 24,500	240	619	6.33	1.73	Excellent

\*Detonation pressure, total gas generation and energy values are calculated using Tiger™, a well established thermodynamic computer code. Other computer codes may give different values.



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# Seisprime

## STANDARD PACKAGING DETAIL

Product (kg / lbs.)	Cartridge Size* (mm / in.)	Quantity per case	Case Weigh (kg / lbs.)	Case Size (cm / inches)
Seisprime (0.5 / 1.1)	57 / 2 ¼	40	21.5 / 47.4 lb	32.4 x 44.4 x 29.8 12 ¾ x 17 ½ x 11 ¾
Seisprime (1.0 / 2.2)	57 / 2 ¼	20	21.5 / 47.4 lb	32.4 x 44.4 x 29.8 12 ¾ x 17 ½ x 11 ¾
Seisprime (2.0 / 4.4)	57 / 2 ¼	10	21.5 / 47.4 lb	33 x 78.1 x 11.7 13 x 30 ¾ x 4 ⅝
Seisprime (2.5 / 5.5)	57 / 2 ¼	10	25.9 / 57.0 lb	33 x 78.1 x 11.7 13 x 30 ¾ x 4 ⅝

\* Available in other sizes upon request.

## STANDARD TECHNICAL DESCRIPTION

High-density molecular explosive

## STORAGE

Store in accordance with all applicable local, state, provincial and federal laws.

## SHELF LIFE

Indefinite from date of manufacture under good storage conditions.

## TRANSPORTATION DATA

### UN CLASSIFICATION

Shipping Name: Boosters

Class & Division: 1.1D

ID Number: UN 0242

### US DOT REFERENCE NUMBER

EX-1993030285

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# Static★Star™

PRODUCT INFORMATION BROCHURE

The Static★Star detonator is specifically designed for the harsh conditions encountered in a modern 3-D seismic survey. The two part pressed fit sealing plug, combined with a newly designed adhesion compound, ensures protection from the environment of salt and brackish waters for extended periods of time. With the largest base charge in the industry, Static★Star electric detonators will initiate all detonator sensitive seismic explosives.



## ADVANTAGES

- 900 mg PETN base charge far exceeds the standard #8 strength detonator.
- Designed for extended sleep time in salt / brackish water use.
- Consistent break time when firing with 3-10 amperes DC current.
- No fire current of 0.45 amperes for extra protection from electrostatic discharge.
- Two part sealing plug for protection from water.
- Resistant to temperature extremes from -40°F / -40°C to 150°F / 66°C.
- # 20 AWG, high abrasion resistant, Yellow HDPE insulated wire.
- Protected primary explosive charge.

## STANDARD TECHNICAL DESCRIPTION

Electric seismic detonator for the geophysical industry



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# Static★Star

## PROPERTIES and STANDARD PACKAGING DETAILS

Length		Ohms Resistance (Ω)	Case Count	Case Weight		NEQ per Case (gr)	Wire Configuration
Ft	Mt			Lbs	Kg		
12	3.7	0.84	20	5.3	2.4	20	Figure 8
24	7.3	1.08	20	5.7	2.6	20	Figure 8
35	10.7	1.31	15	5.7	2.6	15	Figure 8
45	13.7	1.50	10	4.5	2.1	10	Figure 8
55	16.8	1.72	10	5.4	2.5	10	Figure 8
65	19.8	1.92	10	6.3	2.9	10	Figure 8
85	25.9	2.33	10	8.8	4.0	10	Spooled
100	30.5	2.64	10	10.2	4.6	10	Spooled
120	36.6	3.05	10	11.6	5.2	10	Spooled
140	42.7	3.46	3	5.1	11.2	3	Spooled
160	48.8	3.87	3	5.7	12.6	3	Spooled
200	61.0	4.69	3	6.8	14.9	3	Spooled

\*Other lengths available upon request

Electrical Data*	
No Fire Current	0.45 amps
All Fire Current	1.50 amps
Series Ignition Current	6.00 amps
No Fire Impulse	8 mJ/ohms
All Fire Impulse	16 mJ/ohms
Electrostatic Sensitivity	
Double Wire to Shell	20 kV/500 pF/100 mJ
Pin to Pin	10kV/500 pF/25mJ

\* Meets or exceeds the IAGC and CAGC Recommended Product Testing Methods and Specifications for Conventional Bridge-wire type Electric Seismic Detonators for Use in Seismic Operations

### STORAGE

Store in accordance with all applicable local, state, provincial and federal laws.

Case Dimension:	11 1/4" x 7 5/8" x 5"
	286mmx x194mm x 127mm

### SHELF LIFE

For optimum accuracy, use within five years from date of manufacture under good storage conditions.

### TRANSPORTATION DATA

#### UN CLASSIFICATION

Shipping Name: Detonators, Electric

Class & Division: 1.4B

ID Number: UN 0255

#### US DOT REFERENCE NUMBER

EX-2014020188

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2/22/06 | 01/31/2020