



PRODUCT INFORMATION

BROCHURE

1.1D

ENVIROPRIME



Enviroprime is a high velocity molecular 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.

PRODUCT OVERVIEW

TECHNICAL DESCRIPTION

Cast explosive, bioremediation technology.

PRIMING

Use a high-strength detonator (Static★Star, E★STAR Seismic or equivalent) containing a minimum 450mg PETN base charge.

ADVANTAGES

- High detonation velocity produces excellent seismic pulse images.
- Anaerobic bacteria are provided in a time-release form, so 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

Properties	Value	
Nominal Density [g/cm ³]	1.68	
Relative Weight Strength [ANFO=100] ⁽¹⁾	187	
Relative Bulk Strength [ANFO=0.85 g/cm ³] ⁽¹⁾	384	
Detonation Pressure [kb]	239	
Velocity of detonation ⁽²⁾	[ft/s]	24,924
	[m/s]	7,597

Notes:

(1) Theoretical values based on Austin modeling, which assumes ideal detonation. Values calculated with other codes may differ.

(2) The velocity of detonation will depend on application, diameter, and confinement.

‡ Energy values are calculated using Explo 5, a thermo-dynamic computer code employed by Austin Powder Company. Other computer codes may give different values. ANFO = 100 @ 0.82 g/cc.

STANDARD PACKAGING DETAILS

Cartridge Style	Cartridge Weight		Cartridge Diameter		Case Count
	[lb]	[kg]	[in]	[mm]	Outer Case
Plastic Threaded Cartridge	5.5	2.5	2.25	60	10
	1.1	.05	2.25	60	40
	2.2	1.0	2.25	60	20
	4.4	2.0	2.25	60	10

*Available in other sizes upon request.

SHELF LIFE, STORAGE & DISPOSAL

- Shelf life is indefinite from the date of manufacture under good storage conditions.
- Store in accordance with all applicable local, state, provincial and federal laws.
- Disposal of explosive materials can be hazardous. Methods of safe disposal of explosives may vary depending on the user's situation. Please contact an Austin Powder Technical Representative for information on safe practices.

TRANSPORT – UN CLASSIFICATION

Shipping Name: Boosters
 Class & Division: 1.1D
 ID Number: UN 0242

US DOT REFERENCE NUMBER

EX-1993030285

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AUSTIN POWDER

Our Mission is to improve the world we live in through the safe and responsible use of explosives.