

EXPRAY

CBRNe^{er}getics Ltd



Explosives Detection Kit 100 tests / 50 tests



Expray Explosives Detection

Expray is a unique, aerosol-based field test kit for the detection and identification of Group A explosives (e.g. TNT, TNB, etc.), Group B explosives (e.g. Semtex H, RDX, C4, etc.) and compounds containing inorganic nitrates that are used in improvised explosives (e.g. ANFO). Expray is used as a pre-blast, analytical tool, and post-blast investigative tool, to screen against potential terrorist elements, and as a technical evaluation test in soil remediation on hazardous material "clean-up" sites. When used as a post-blast investigative tool, the product is proven to speed up crucial investigations.

The kits are widely used in areas of conflict to rapidly screen individuals, items, and vehicles prior to permitting site access and for separating suspects for further questioning. The kits are inexpensive, rugged and require no training, allowing their rapid deployment and effective use. Results are nearly instantaneous. No additional tools, equipment, or electrical power are necessary allowing the kits to be used in the most primitive conditions.

DETECTION DATA						
Product	EXPRAY -1		EXPRAY -2		EXPRAY -3	
Detects	Polynitro Aromatics		Nitrate-esters Nitramines		Inorganic Nitrate Compounds	
	Group A		Group B		Group C	
#	Substance	Colour	Substance	Colour	Substance	Colour
1	TNT	Dark Brown	Semtex	Pink	Ammonium Nitrate	Pink
2	TNP	Dark Brown	RDX	Pink	Potassium Nitrate	Pink
3	DNT	Blue Green	HMX	Pink	Sodium Nitrate	Pink
4	Picric Acid	Yellow	PETN	Pink	Barium Nitrate	Pink
5	Tri Nitro Naphthalene	Violet	EDGN	Pink	Black Powder	Pink
6	Lead Styphnate	Yellow	Nitro Glycerin	Pink		
7			Nitro Cellulose	Pink		
8			Tetryl	Pink		
9			Smokeless Powder	Pink		

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The Expray testing procedure consists of three separate test reagents:

- Expray #1 (Model #1510) for group A explosives
- Expray #2 (Model #1520) for group B explosives
- Expray #3 (Model #1530) for improvised explosives containing nitrates.

Use

Expray is a chemically cumulative testing procedure.

- 1.** First wipe the surface with the collection paper (Model #0530). Spray the collection paper with Expray #1 and observe for a dark violet to brown color reaction indicating the presence of Group A explosives.
- 2.** Next, spray the same collection paper with Expray #2 and observe for a pink color reaction indicating the presence of Group B explosives.
- 3.** Finally, spray the same collection paper with Expray #3 and observe for a crimson pink color reaction indicating the presence of nitrate compounds. It is recommended that all three Expray cans be sprayed during a testing process even if a positive reaction is observed in either step #1 or #2.

Even if the environmental surface or package being tested is light in color, the collection paper should still be used. The level of sensitivity (20 nanograms) surpasses that of other currently available products. The testing process is fast and efficient. No glass ampoules, spatulas or waiting required. Results appear in seconds. No additional tools or equipment required. The identification/detection process requires no special training and testing can be performed "on the spot".

CHARACTERISTICS	
Operating Temperature	32 to 110 degrees F
Resolution	20 nanograms
Form Factor	Hand-held aerosol can with paper wipes
Class	Chemical reaction
NSN - 100 tests	6665-01-554-8014
NSN - 50 tests	6665-01-554-8022