



herges® Multi-Stick 2000 for Home-Made Explosives (HME) & Military Explosives

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For the detection of smallest quantities of **Home-Made Explosives, i.a.**

- Peroxides: TATP, DADP, HMTD, e.g. HME
- Inorg. Nitrates: Ammonium, Potassium, Urea Nitrate, e.g. Black Powder
- Chlorates, e.g. Flash Bang set

Sensitivity: TATP 40 ng | Nitrates 85 ng | Chlorates 270 ng

For the detection of smallest quantities of **Military Explosives, i.a.**

- Nitroaromatics: TNT, DNT, HNS, Tetryl
- Organic Nitrates: NG, EGDN, PETN, ETN, Nitrocellulose
- Nitramines: RDX, HMX

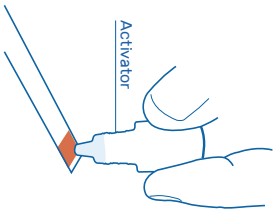
Sensitivity: Nitroaromatics 115 ng | Organic nitrates 1 µg | Nitramines 1 µg

The color change occurs within 5 seconds. In case of Military Explosives apply one drop of the Booster to the substance. Then activate a stick with the enclosed Activator and touch the substance. The sticks remain usable for 15 minutes. Do not bring Activator or Booster into contact with eyes or skin. **It is intended that the Activator and Booster vials are only filled to a small extent.** Use Activator very sparingly. 10 µl per application is sufficient.

Information: The stick is non-toxic and can be disposed off in normal household waste after use. The content of the Activator vial is corrosive. **Always wear gloves.** However, the emptied vial can also be disposed off in normal household waste. This applies also for the content of the Booster.

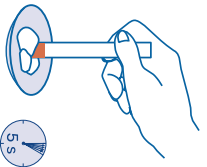
Instructions for Home-Made Explosives

1 Activation

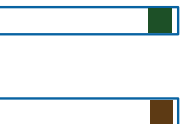


Moisten the pad by briefly holding the Activator vial vertically against the pad of the stick. An automatic outflow takes place. Do not press the vial. Only use a small amount of the Activator liquid. The red dye will be activated and remains active for about 15 minutes.

2 Testing



3 Reading



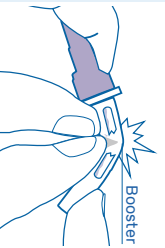
Bring activated stick directly into contact with the substance to be tested for at least 5 seconds.

Pad turns **green**: Peroxide-based explosives.
Pad turns **brown**: Inorganic nitrate based explosives and chlorates.

Instructions for Military Explosives

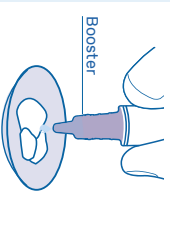
Place sample of substance to be tested onto enclosed watch glass using the spatula.

4 Crushing



Crush the glass ampoule in the dropper bottle **4**. Now the Booster can be used for up to 2 h. Add a drop of the Booster to the substance to be tested **5**.

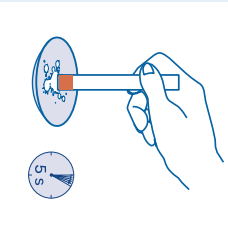
5 Dropping



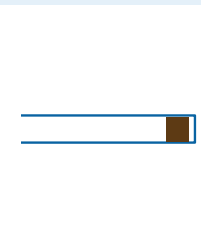
When coloration occurs:
STOP: A nitroaromatic explosive has been detected. No further steps and no stick is needed!
TNT: HNS:
DNT: Tetryl:

If no coloration or a yellowish has occurred after the addition of the Booster, activate a stick. Follow instructions given in **1**, afterwards continue with **6** & **7**.

6 Testing



7 Reading



Bring activated stick directly into contact with the solution for at least 5 seconds.

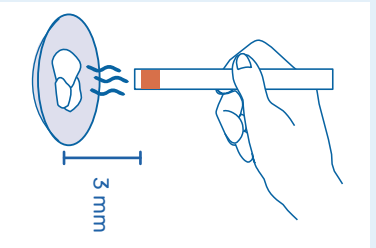
Pad turns **brown** or **green**: Organic nitrate-based explosives or nitramines.

Instructions

for Indoor Use
at Room Temperature



Only for TATP



Under indoor conditions (i.e. temperature between 15 and 30 °C, without high air exchange/wind), **non-contact** detection of TATP is possible. Simply hold the stick at a distance of 3 mm for 15 seconds over the vapors of the substance to be tested. In case of doubt, the crystals should always be touched with the stick.