



## Abel Heat Tester - Consumables

### AHT Test Papers

Standard test papers for DELTIMA ABEL HEAT TESTER

Abel Heat Tester presents precise and efficient testing instrument for investigation of thermal stability of nitrocellulose and other energetic materials according to major recognized standards.

#### Application

Heat Test (65.5 °C) and Abel Heat Test (76.6 or 80 °C) are usually required in addition to the Methyl Violet Test method. It is routinely used for stability determination of nitrocellulose gun powders, rocket fuels and other nitro compounds. It is used as a worldwide acceptance criterion. Abel Heat Test is implemented into the quality management of major gun powder and ammunition producers.

#### Principle

Abel test method is based on the detection of decomposition products of a thermally treated sample by means of standard detection paper. Evolved NO<sub>x</sub> reacts with indicator absorbed in paper wetted by glycerine which forms a visible brown strip. The time required for this colour change is noted as a time of the test. Temperature and conditions depend on the exact standard procedure but usually ranges between 65 to 80 °C.

#### Compliance

STANAG 4178, DEFSTAN 13-189/1, AOP-7, ČOS137602

AHT Test Papers are the highest quality product which meets specifications of U.S. Army Picatinny Arsenal.

#### Specifications

Packing	glass vial
Papers content per bottle	100 pcs
Paper size	1 x 3/8" or 10x20 mm
Color	white
Quality certificate	yes

#### Related products

AHT Test Papers are consumable material for the stability testing method implemented into several testing devices of DELTIMA Precision Ltd.

Testing apparatus for Abel Heat Test is offered as a single AHT unit or as an implemented feature of All-in-One complex system UNI-Heat.



Energetic Materials  
Stability & Compatibility  
Heating Blocks



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