

BAM FRICTION SENSITIVITY TEST FOR EXPLOSIVES CONSUMABLE PLATES & PINS

BAM Friction Sensitivity Tester (also known as Friction Tester) is a standard testing instrument for determination of friction sensitivity of energetic materials such as high explosives, primary explosives, propellants and pyrotechnics.

Application

Several standards were globally adopted for testing by impact and friction stimuli. These sensitivity data provide essential characteristics of materials and are necessary for their production, manipulation, handling, processing and transportation.

Explosives change their properties depending on external conditions, therefore, the sensitivity testing is often combined with standard ageing procedures. Sensitivity testing is a necessary part of the quality management of the production process and transport or storage classification.

Principle

BAM method for sensitivity testing is based on observation of sample reaction after the exposition to friction between porcelain plate and peg. The applied force on a porcelain pin determines the friction rate while porcelain type, surface roughness and plate movement speed are constant.

Only high-quality consumable material assures proper results, its reproducibility and inter labs reproducibility.

Description

BAM FST Plates and Pins are high-quality parts. Parts are made of siliceous nonglazed porcelain and production process combines the technology of wet pressing and traditional technology of surface treatment by a sponge prior to burning.

Specifications

BAM PLATES (TILES)	
Dimensions	25 x 25 x 5 mm
Material	Siliceous technical porcelain
Surface	Nonglazed
Rough sides	Both 2 sides
Roughness	9 - 32 µm

BAM PINS (PEGS)	
Dimensions	D10 L15 with R10 mm sides
Material	Siliceous technical porcelain
Surface	Nonglazed

Compliance

UN RTDG 2003 [13.4.2 Test 3(b)(i)], STANAG 4487
EN 13631-3:2004, EC Directive 92/69/EEC (m. A14)

