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HNS-IV (2,2', 4,4', 6,6' - Hexanitrostilbene) is a well characterized energetic material that is used in a variety of aerospace, military, and industrial systems. It is an insensitive explosive, and is thermally stable to temperatures of over 200 C.

HNS-IV Explosive Properties and Characterization Tests

HNS-IV Explosive Properties and Characterization Tests. ... The Effects of Grain Size on Shock Initiation Mechanisms in Hexanitrostilbene (HNS) Explosive. Dynamics of Shock Waves, Explosions, and Detonations August 2012. Development of an Ultrafine HNS for Use in Modern Slapper Detonators.

HNS-IV Explosive Properties and Characterization Tests ...

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It is used as a heat-resistant high explosive. It is slightly soluble (0.1 - 5 g/100 mL) in butyrolactone, DMF, DMSO, and N-methylpyrrolidone. Production and use. It is produced by oxidizing trinitrotoluene (TNT) with a solution of sodium hypochlorite. HNS boasts a higher insensitivity to heat than TNT, and like TNT it is insensitive to impact.

Hexanitrostilbene - Wikipedia

HNS Type IV for slapper detonators: due to high sensitivity and good reliability characteristics, it is used as an ignition explosive in slapper detonators (the surface area is above 10 m²/g). A purification process makes it significantly more thermally stable than stipulated in military specifications.

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•HNS IV, which is also known as small particle HNS, is characterized by high thermal stability and has proven suitable for a wide variety of applications. This HNS IV powder is used extensively in Excelitas Blue Chip® Detonator family. •Tests that required that the material be tested in a configuration similar to the

HNS IV Powder Characterization to the Updated AOP-7

? HNS type IV for slapper detonators: characterized by a high sensitivity and thereby good reliability in initiation systems, this quality is significantly more thermally stable than stipulated in the military specifications. Owing to its stability at high temperature and its excellent performance, HNS has several applications in the

HEXANITROSTILBENE (HNS) - Eurenco

Explosives which detonate and propagate at velocities greater than 1000 m/s, are high explosives and include the secondary explosives RDX, HMX, HNS, DIPAM, TETRYL, DATB, TATB, PETN, TNT. PROPERTIES of explosives are measurable physical attributes typical of a single crystal of an explosive material. CHARACTERISTICS of an explosive are attributes measured as a performance value after or during the chemical reaction.

Properties of Selected High Explosives | PacSci EMC

HNS-IV Explosive Properties and Characterization Tests. Barry Neyer, ...

Dynamics of an explosive reaction center | AIAA Journal

Hexanitrostilbene (HNS) is an insensitive and heat resistance high energy density materials, it has been widely used in various weapons, space applications, and et al. HNS-IV, one type of HNS, has high purity, large specific surface area, insensitive to mechanical and electrostatic stimulations, and sensitive to short pulses, these characteristics making it the main charge of slapper detonator [, , , ,]. However, due to ultrafine HNS's high surface energy and low sphericity, it can ...

Fabrication of microspherical Hexanitrostilbene (HNS) with ...

This chapter summarizes the properties of 2, 2?, 4, 4, 6, 6? hexanitrostilbene (HNS) relative to more common thermally stable explosives. The very fine crystalline HNS material, purified by extraction of impurities, is designated as HNS-I. HNS-II is a larger particle-size, higher bulk-density, free-flowing material obtained by recrystallization of HNS-I.

Hexanitrostilbene (HNS) | SpringerLink

HNS is a reasonably insensitive high explosive (IHE), and its structure is shown in Fig. 1. Because of its thermal and shock stability, HNS is often used as the explosive choice for both perforators in the oilfield exploration and crew escape system pyrotechnic components , . Particularly, ultra-fine HNS is required to meet high surface area, high purity and stable morphology, which gives reliable threshold energies when used in the design for modern slapper detonator, also called exploding ...

Prefilming twin-fluid nozzle assisted precipitation method ...

In order to investigate the effect of crystal habit modifiers (CHM) on morphology, purity, thermal properties, and short duration shock pulses sensitivity of HNS, nanocrystalline HNS was recrystallized from ultra?pure water by the prefilming twin?fluid nozzle?assisted precipitation (PTFN?P) method with two different CHMs and without CHM.

Effect of Habit Modifiers on Morphology and Properties of ...

EXPLOSIVES, HNS-IV AND HNS-V. Includes all amendments and changes through Amendment 1, April 21, 1999. View Abstract Product Details Document History MIL-E-82903 (Amendment Only) Amendment 1, April 21, 99. MIL-E-82903 (Base Document ...

MIL-E-82903 : EXPLOSIVES, HNS-IV AND HNS-V

Bulk HMX, HNS, PETN, RDX and TNT based explosives are available in pure formulations or desensitized for specific applications. Desensitized products are coated with wax or polymer binders and mixed with graphite or other compounds to improve their material flow properties.

Bulk explosives products for the defense, aerospace ...

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Explosive characteristics Lead azide is highly sensitive and usually handled and stored under water in insulated rubber containers. It will explode after a fall of around 150 mm (6 in) or in the presence of a static discharge of 7 millijoules. Its detonation velocity is around 5,180 m/s (17,000 ft/s).

Lead(II) azide - Wikipedia

Small quantities of HNS may be dissolved in dimethylformamide or acetone and burned. Solid HNS together with organic material can be burned in an open flame on safe distance by destruction experts. National regulations for handling explosives must be followed. 14.

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