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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.

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Hexanitrostilbene - Wikipedia

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.

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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

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2012. Development of an Ultrafine HNS for Use in Modern Slapper Detonators.

HNS-IV Explosive Properties and Characterization Tests ...

HNS-IV (2,2', 4,4', 6,6' - Hexanitrostilbene) is a well characterized energetic material that is used in a variety of aerospace, military,

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and industrial systems. It is an insensitive explosive,...

HNS-IV Explosive Properties and Characterization Tests

HNS-IV (2,2', 4,4', 6,6' - Hexanitrostilbene) is a well characterized energetic material that is used in a variety of aerospace, military,

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and industrial systems. It is an insensitive explosive, and is thermally stable to temperatures of over 200 C. With many modern systems

AIAA 2003-5138 -- HNS-IV Explosive Properties and ...

- HNS IV, which is also known as small particle HNS, is characterized by high

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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

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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 $10 \text{ m}^2/\text{g}$). A purification process makes it significantly more thermally stable than stipulated in military specifications.

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Eurengo | HNS

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

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Properties of Selected High Explosives | PacSci EMC

the low core load detonating cords. The chemical/explosive properties will be HNS has found many applications throughout the aerospace industry in explosive components for high speed

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aircraft and spacecraft and has been
"incorporated into a PBX seismic charge.
The properties of this PBX will be
discussed.

OVERVIEWS OF HNS PRODUCTION / PROPERTIES LI-,

◆ HNS type IV for slapper detonators:
characterized by a high sensitivity and

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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) -

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Eurenc

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.

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Bulk explosives products for the defense, aerospace ...

2,2',4,4',6,6'-hexanitrostillbene (HNS, Fig. 1) is an explosive with excellent properties such as thermal stability, impact and shock insensitivity.

Increasing of photostability of HNS

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explosive in the ...

Neyer BT, Cox L, Stoutenborough T,
Tomasoski R (2003) HNS-IV explosive
properties and characterization tests.
39th AIAA/ASME/-SAE/ASEE Joint
Propulsion Conference and Exhibit
AIAA-2003-5138, Huntsville AL July
20-24, 2003 Google Scholar

Online Library Hns Iv Explosive Properties And

Characterization Tests **Hexanitrostilbene (HNS) |**

SpringerLink

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 ...

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Hexanitrostilbene (HNS) | Request PDF

A tertiary amine first removes two protons from HNBB; the resulting dianionic species is then electrolyzed at an inert electrode to produce HNS. The characterization of the chemistry and electrochemistry in this transformation is presented, and the properties of the

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species involved are compared with those of related molecules.

APPLICATION OF HEXANITROSTILBENE (HNS) IN EXPLOSIVE ...

LLNL explosives handbook: properties of chemical explosives and explosives and explosive simulants Technical Report

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Dobratz, B M This handbook presents information and data for high explosives (HEs) of interest to programs at the Lawrence Livermore National Laboratory (LLNL) and other Department of Energy (DOE) facilities.

**Properties of chemical explosives
and explosive simulants ...**

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Explosive Destructors and Functional
Devices. E. William Place ; Journal of Jet
Propulsion January 1956. HNS-IV
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**Numerical Characterization of
Detonator Performance in an ...**
RDX, abbreviation of Research

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Department explosive or Royal Demolition explosive, formally cyclotrimethylenetrinitramine, also called cyclonite, hexogen, or T 4, powerful explosive, discovered by Georg Friedrich Henning of Germany and patented in 1898 but not used until World War II, when most of the warring powers introduced it. Relatively safe and

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inexpensive to manufacture, RDX was produced ...

RDX | explosive | Britannica

According to the US military specification, HNS has multiple classifications such as HNS-I, HNS-II, and HNS-IV. HNS-IV is an ultrafine-sized material with a surface area of 5.0 to

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25.0 m²/g, which is proven to be insensitive to shock, percussion, heat, and friction, but sensitive to short duration shock.

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