

## Preparation Of Combined Ammonium Perchlorate Ammonium

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### Preparation of Combined Ammonium Perchlorate/Ammonium ...

Exploration of the Energetic Material Ammonium Perchlorate at High Pressures: Combined Raman Spectroscopy and X-ray Diffraction Study  
C Author: Kang, Lei, Li, Shourui, Wang, Bo, Li, Xiaoshuang, Zeng, Qingguang  
Source: Journal of physical chemistry 2018 v.122 no.28 pp. 15937-15944 ISSN: 1932-7455 Subject:

### Ammonium Chlorate: Decomposition & Synthesis | Study.com

In this study, the preparation of combined AP/AN particles by a freeze-drying technique was attempted t... ABSTRACT  
Ammonium perchlorate (AP) and ammonium nitrate (AN) are used as propellant oxidizers.

### Preparation and characterization of ultra-fine ammonium ...

Ammonium perchlorate composite propellant (APCP) is a modern fuel used in solid-propellant rocket vehicles. It differs from many traditional solid rocket propellants such as black powder or zinc-sulfur, not only in chemical composition and overall performance, but also by the nature of how it is processed. APCP is cast into shape, as opposed to powder pressing as with black powder.

### Ammonium perchlorate - Wikipedia

Ammonium perchlorate ("AP") is an inorganic compound with the formula NH<sub>4</sub>ClO<sub>4</sub>. It is a colorless or white solid that is soluble in water. It is a powerful oxidizer. Combined with a fuel, it can be used as a rocket propellant. Its instability has involved it in a number of accidents, such as the PEPCON disaster.

### Preparation of Combined Ammonium Perchlorate/Ammonium ...

Tetrabutylammonium perchlorate. 1923-70-2. 1-Butanaminium, N,N,N-tributyl-, perchlorate. Tetrabutyl ammonium perchlorate. Tetra-n-butylammonium perchlorate

## **Preparation of Cu/CNT Composite Particles and Catalytic ...**

A method of producing ammonium perchlorate for composite solid rocket propellant comprising preparing a solution of the coating in liquid media, preparation of suspension of ammonium perchlorate, her grinding in the presence of grinding media and drying, characterized in that the preparation of the coating solution in the liquid medium is carried out by dissolution of the coating, which is ...

## **Exploration of the Energetic Material Ammonium Perchlorate ...**

By using a simple flow-focus micro-mixer in combination with ultrasonic-assisted anti-solvent crystallization, ultra-fine ammonium perchlorate crystals could be obtained. This method is advantageous because it is fast, safe, mild, and efficient.

## **Thermal Decomposition of Ammonium Perchlorate in the ...**

Preparation and Application of La<sub>2</sub>O<sub>3</sub> and CuO Nano Particles as Catalysts for Ammonium Perchlorate Thermal Decomposition Hossein Momenizadeh Pandas. Chemistry Department, Faculty of Science, Semnan University, Semnan, 35195-363 Iran. Search for more papers by this author.

## **Preparation Of Combined Ammonium Perchlorate Ammonium ...**

SUBSTANCE: invention proposes a method for preparation of ammonium perchlorate for compounded solid rocketed fuel, which is characterized by preparation of coating solution in liquid carrier via dissolution of lecithin in trifluorotrchloroethane or methylene dichloride, preparation of ammonium perchlorate suspension from ammonium perchlorate and above-prepared solution, breakage of suspension by means of glass beads on two twin mills during 1 to 10 h until ammonium perchlorate having particle ...

## **Bing: Preparation Of Combined Ammonium Perchlorate**

Ma Yongjun, Wang Renpeng, Zhao Fengqi, Pei Chonghua, Li Zhaoqian, Preparation of high filling ratio Fe<sub>2</sub>O<sub>3</sub>@MWCNTs composite particles and catalytic performance on thermal decomposition of ammonium perchlorate, Micro & Nano Letters, 10.1049/mnl.2014.0263, 9, 11, (787-791), (2014).

## **Tetrabutylammonium perchlorate | C<sub>16</sub>H<sub>36</sub>ClNO<sub>4</sub> - PubChem**

OF AMMONIUM PERCHLORATE By Donna Price, A. R. Clairmont, Jr., and I. Jaffe  
ABSTRACT: Five different lots of ammonium perchlorate (AP) provided average particle sizes of 10 to 200 V. They were used to show the particle size effect on the limit curves and the family of detonation velocity vs density curves. Decrease in

particle size shifted the

## **Ammonium perchlorate composite propellant - Wikipedia**

nanoparticles, ammonium perchlorate, thermal decomposition, DSC, catalysis, differential scanning calorimetry 1. INTRODUCTION Composite solid propellants are the major source of chemical energy in space vehicles and missiles. Ammonium perchlorate (AP) is widely used as an oxidiser in composite solid propellants 1-2. The ballistics of a composite ...

## **US3218121A - Manufacture of ammonium perchlorate - Google**

...

One ammonium ( $\text{NH}_4^+$ ) ion sticks to one chlorate ion ( $\text{ClO}_3^-$ ) due to electrostatic attraction. In other words, oppositely charged particles attract each other. Let's see how this compound is...

## **Preparation Of Combined Ammonium Perchlorate**

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## **Ammonium perchlorate preparation method**

Ammonium perchlorate (AP) and ammonium nitrate (AN) are used as propellant oxidizers. In this study, the preparation of combined AP/AN particles by a freeze-drying technique was attempted to improve the burning characteristics and determine the combustion wave mechanism of composite propellants.

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