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**What are the liquid propellants  
used in rocket Engines and ...**

Propellant is the chemical mixture  
burned to produce thrust in rockets and  
consists of a fuel and an oxidizer. A fuel  
is a substance that burns when

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combined with oxygen producing gas for propulsion. An oxidizer is an agent that releases oxygen for combination with a fuel. The ratio of oxidizer to fuel is called the mixture ratio. Propellants are classified according to their state - liquid ...

## **Liquid Rocket Propellants: Past and**

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Liquid Rocket Propellants Past And On  
March 16, 1926, Robert H. Goddard used  
liquid oxygen (LOX) and gasoline as  
rocket fuels for his first partially  
successful liquid-propellant rocket  
launch. Both propellants are readily  
available, cheap and highly energetic.  
Oxygen

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## **Liquid Propellants | Aerospace Engineering**

Rocket - Rocket - Liquid-propellant  
rocket engines: Liquid-propellant  
systems carry the propellant in tanks  
external to the combustion chamber.  
Most of these engines use a liquid  
oxidizer and a liquid fuel, which are

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transferred from their respective tanks by pumps. The pumps raise the pressure above the operating pressure of the engine, and the propellants are then injected into the engine in ...

## **PROPELLANTS - NASA**

LIQUID PROPELLANT ROCKET

PROPULSION. With my interests in rocket

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propulsion, I have developed a number of liquid propulsion systems in the past (with varying degrees of success). However, when the opportunity arose, I decided to buy a commercially available liquid bi-propellant rocket engine - The Systeme Solaire SS67B3 liquid rocket engine.

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## **Liquid Rocket and Propellants - 1st Edition**

Since the invention of the V-2 rocket during World War II, combustion instabilities have been recognized as one of the most difficult problems in the development of liquid propellant rocket engines. This book is the first published in the United States on the subject since

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NASA's Liquid Rocket Combustion  
Instability (NASA SP-194) in 1972.

## **Liquid Rocket Propellants Past And Present Influences And**

In the past, hydrogen peroxide ( $H_2O_2$ ,  
an oxidizer) was also used as a  
monopropellant. However, it has even  
lower specific impulse (150 sec) than

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hydrazine. The liquid propellants that give the highest performance are bipropellants. 2 Bipropellants are fuel and oxidizer combinations.

## **Liquid Rockets And Propellants | Progress in Astronautics ...**

Liquid Rocket Propellants: Past and Present Influences and some Future 361

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successful liquid rocket launch. Both are readily available, cheap and highly energetic. Oxygen is a moderate cryogen — air will not liquefy against a liquid oxygen tank, so it is possible to store LOX briefly in a rocket without excessive insulation. Gasoline has

## **Liquid Rocket Engine Combustion**

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In the liquid propellant rocket, the propellants in a liquid state inject into a combustion chamber. It burns and exhausts at a high velocity through the exit nozzle. In addition, it is used to cool the rocket engine by the circulation of fuel. It is around the walls of the combustion chamber and the nozzles.

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Important benefits of liquid ...

## **Rocket - Liquid-propellant rocket engines | Britannica**

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## **Liquid Rocket Propellants Past And**

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The problems of handling liquid hydrogen are the same for the nuclear rocket as for the chemical rocket. Another substance mentioned for use as a propellant in the nuclear rocket is ammonia. While offering only about one-half the specific impulse of hydrogen for the same reactor temperature as a

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consequence of its greater molecular weight, it is a liquid at reasonable temperatures and is ...

## **Liquid Rocket Propellant - an overview | ScienceDirect Topics**

Liquid-propellant rocket - Wikipedia

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successful liquid rocket launch. Both are readily available, cheap and highly energetic. Oxygen is a moderate cryogen — air will not liquefy against a liquid oxygen tank, so it is possible to store LOX briefly in a rocket without ...

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Past and Present ...**

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Use of liquid propellants can be associated with a number of issues: Because the propellant is a very large proportion of the mass of the vehicle, the center of mass shifts significantly rearward as the propellant is used; one will typically lose control of the vehicle if its center mass gets too close to the center of drag/pressure.; When operated

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within an atmosphere, pressurization of the ...

## **Basics of Space Flight: Rocket Propellants**

Solid propellant rockets were invented before liquid-fueled rockets. The solid propellant type began with contributions by scientists Zasiadko, Constantinov,

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and Congreve. Now in an advanced state, solid propellant rockets remain in widespread use today, including the Space Shuttle dual booster engines and the Delta series booster stages.

**Liquid Rocket Propellants Past And**  
On March 16, 1926, Robert H. Goddard

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used liquid oxygen (LOX) and gasoline as rocket fuels for his first partially successful liquid-propellant rocket launch. Both propellants are readily available, cheap and highly energetic. Oxygen is a moderate cryogen as air will not liquefy against a liquid oxygen tank, so it is possible to store LOX briefly in a rocket without excessive insulation.

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## **Rocket Propellant - solid or liquid - Arya College of ...**

Liquid propellants in large engines are cryogenic oxygen (LOx) and hydrogen, some Russian engines use kerosene / LOx, methane / LOx is also considered. The cryogenic handling is a major cost item.

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## **How a Solid Propellant Rocket Works**

W - propellant flow velocity in the pipe. Based on the general recommendation the propellant flow velocity is 10 - 25m/s. The propellants MFRs and their density are known from the cycle estimation level. Exhibit 1: Sketch of the

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turbopump Exhibit 2: Sketch of the  
thrust nozzle

## **Liquid-propellant rocket - Wikipedia**

This realization has brought about ever increasing efforts in rocket technology, as well as in all the other technical areas associated with space flight.

Approximately half the papers in this

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volume were presented at the American Rocket Society Propellants, Combustion and Liquid Rockets Conference held at The Ohio State University on July 18, 19, 1960.

## **Liquid rocket propellant - Wikipedia**

During last few decades, propellant chemists are struggling to find high -

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energy liquid rocket propellants, better suited to the defence and civilian.

Rocket propellant is a material used by a rocket as, or to produce in a chemical reaction, the reaction mass (propulsive mass) that is ejected, typically with very high speed, from a rocket engine to produce thrust, and thus provide ...

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Rocket Propellants. 1) Liquid Propellants  
2) Solid Propellants 3) Hybrid Propellants  
In a liquid propellant rocket, the fuel and oxidizer are stored in separate tanks, and are fed through a system of pipes, valves, and turbopumps to a combustion chamber where they are combined and

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burned to produce thrust.