

SPACECRAFT SYSTEMS

ADN-Based Non-Toxic Thruster Series

The ADN-Based Non-Toxic Thruster Series includes thrusters ranging from 0.2 N to 20 N, designed to provide high-performance and environmentally friendly propulsion solutions. Two ADN-based monopropellant formulations were developed: a medium-energy propellant with a theoretical specific impulse of approximately 220 s, and a high-energy propellant reaching up to 245 s. Catalyst optimization further enhances combustion efficiency and propellant compatibility.

Quick Overview

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Key Specifications

Parameter	Value
Specification	Details
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Status	Space-qualified

Key Features

- Non-toxic, storable, and highly compatible ADN propellant.
- High-performance propulsion system.
- Available in both medium-energy and high-energy configurations.
- Modular design supporting rapid assembly and integration.

Applications

- Suitable for **micro- and small-satellite propulsion systems**, providing reliable, green alternatives to hydrazine-based thrusters with verified in-orbit performance.

Documentation & Resources

- [Technical Specifications](#)
- [Applications](#)