



Łukasiewicz
Institute
of Aviation



Catalysts, designed
to decompose
hydrogen peroxide 98%+

HYDROGEN PEROXIDE DECOMPOSITION CATALYSTS

CHARACTERISTICS

Catalysts, designed to decompose hydrogen peroxide 98%+, have been developed by Łukasiewicz – Institute of Aviation to support rocket and space propulsion-related activities. Processes and procedures applied to the catalyst preparation technology provide the highest-quality products.



KEY FEATURES

- Robust.
- Efficient.
- Long lifetime.
- High propellant throughput (demonstrated over 4 kg of propellant per 1 g of catalyst at high bed loading).
- Cold-start capable.
- Dedicated to 98% HTP (up to 99.9%).

APPLICATION

- Monopropellant HTP thrusters.
- Liquid bipropellant thrusters and rocket engines.
- Hybrid motors.

TECHNICAL INFORMATION

Parameter	Value
Support	ceramic pellet, metal monolith, other (tailored for customer's requirements)
Active phase	platinum, modified silver, manganese oxides



The Łukasiewicz Research Network – Institute of Aviation

offers a wide range of specialized research, engineering services and products. We provide comprehensive solutions, ranging from dedicated analyzes, simulations, engineering design, through the selection, testing and certification of materials and structures, to rapid prototyping and additive manufacturing.

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