Metal Components for Space Applications

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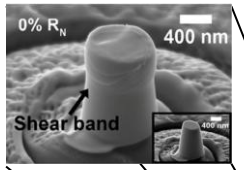
BIMO TECH



Working with arianeGROUP

Additive Manufacturing (AM)

Laser Powder Bed Fusion (LPBF)

Refractory High-Entropy Alloys (RHEAs)

Space Propulsion

Rocket Engines

Pre-burners

High-Temperature Materials

Oxidation Resistance

Cluster 4 Space

Advanced Materials

European Space Transportation

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Currently executing **SPARK: Strong Performance Alloys for Rocket Kinetics** under ESA FLPP This provides a strong foundation and de-risking for further development under Horizon Europe. Looking for Horizon partners.

Looking for Horizon partners

Special Performance Metals and Alloys for Space Applications

Development of Metal Components

- Materials for oxygen-rich, high-pressure, high-temperature environments.
- Addressing the need for advanced materials to enhance performance, reusability, and cost-efficiency in future European space transportation systems.
- Directly supporting European ambitions for autonomous access to space and technological leadership.

Relevance to Cluster 4 - Space Work Programme 2025:

- Aligns with calls for "New Materials and Processes for Launcher and In-Space Liquid Propulsion".
- Contributes to "in-space manufacturing" and "propulsion technologies" by advancing AM of specialized alloys for space applications.
- Addresses the need for innovative technologies benefiting future European Space Transportation.

Metal Components for Space Applications

Poland

SME

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