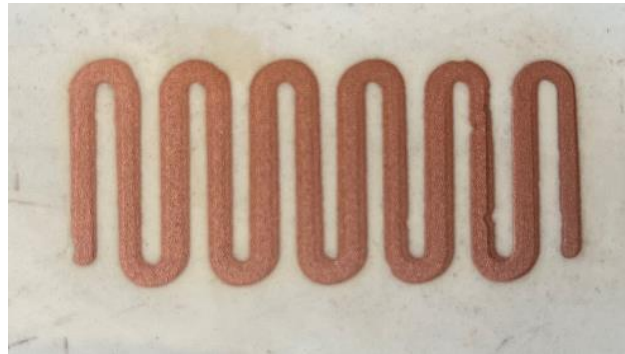
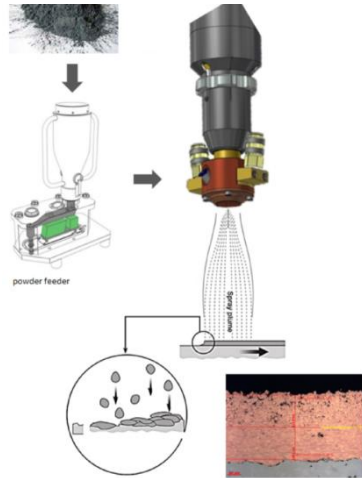


**PLASMA BASED
MULTIMATERIAL COATINGS**
RHP-Technology GmbH

PLASMA BASED COATINGS FOR EXTREME ENVIRONMENTS

Atmospheric plasma powder deposition processes will be used for manufacturing of combined metal-ceramic coatings.

Goal is the realization of ceramic-metal layers for functional use. This can include heating elements, sensors or integrated conductors.



ORGANISATION PROFILE

RHP-Technology GmbH
(Seibersdorf, Austria) | SME;

Personnel: 40 employees

Founded in 2010 as spin-off of
the Austrian Institute of
Technology (AIT)

Solution provider in
advanced materials and
manufacturing technologies



PROJECT APPROACH

MOTIVATION |

- Semiconductor chambers, hot parts and propulsion components need durable protection, electrical isolation and sensing or other functionalities;
- Combining of e.g. erosion resistance with sensing/functional properties

DEVELOPMENT |

- Optimise feedstocks and Plasma Powder Deposition/thermal-spray windows; manage layer density, adhesion and stress; add heater/sensor tracks or magnetic layers/sensing layers with ceramics;
- Manufacturing of test coupons and representative parts allowing to be tested in relevant environment.

PARTNERS

CURRENT CONSORTIUM | Lead applicant: RHP-Technology GmbH (Austria; SME).

PARTNER SEARCH | POTENTIAL PARTNERS

- (1) Raw material suppliers/Feedstock supplier for ceramic and metallic powders
- (2) Atmospheric PPD/thermal-spray equipment manufacturers;
- (3) Endusers from various areas, e.g. semiconductor, UAV/space or big science applications, industrial applications;
- (4) R&D/testing partners for analyses of coatings

Seeking international Eureka industrial and R&D partners; countries to be agreed.

CONTACT INFO

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