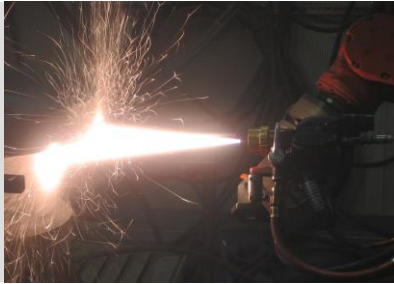


_THERMAL SPRAY

b-MET High Bonding Coatings



Purpose of Coatings

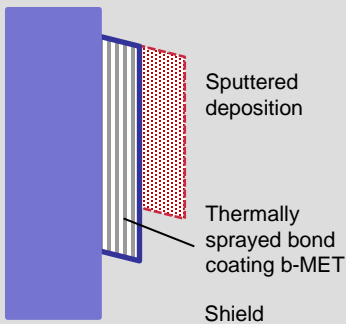
- Bonding of surplus and undesirable coating material on vacuum coating equipment
- Protect the vacuum equipment from straying particles or tinsels

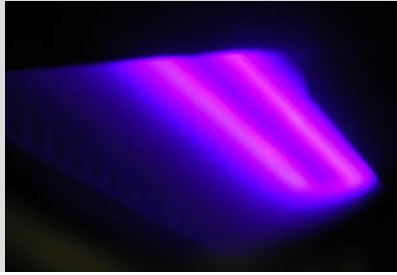
Applications

Shields and internal surfaces of equipment parts in vacuum coaters

Features

- Technologies: Powder flame spraying, Wire flame spraying, Arc spraying
- Coating material: Different metal alloys applicable, including non-ferromagnetic materials
- Shield material: Aluminium, steel, other metals
- Coating thickness: Adjustable, e.g. 0.2 mm
- Roughness R_z (as sprayed): $> 100 \mu\text{m}$
- Highly reproducible bonding of b-MET coatings on substrates
- Very high roughness and special surface structure of b-MET as the main factor for excellent deposition adhesion
- Coating can be applied at plane metal shields as well as at 3D-shaped covering parts





Benefits

- Dry coating process with powder, without any chemicals
- Selective coating of parts and surfaces possible
- High resistance of the layer build-up to mechanical stress of sputtering depositions
- Thicker sputtering depositions tolerable
- Prevention of delamination of sputtering depositions on equipment during sputtering campaign
- Longer working periods

Our Service Offering

- Incoming inspection - for decision re-usability / coating removal process
- Stripping – removal of sputtered layers and bond coating
- Substrate surface preparation
- Coating – thermal spraying of b-MET
- Cleaning – surface cleaning according specifications for use in vacuum applications
- Visual outgoing inspection
- Packaging - according customer specification (e.g. in bags)



Who we are

With more than 100 years of experience, GfE is one of the world's leading manufacturers and suppliers of high-performance metals and materials. Based on our comprehensive materials science know-how, we develop high-quality tailor-made solutions for a wide range of industrial applications. We offer our customers fast service and qualified technical advice.



Certification in accordance with DIN EN ISO 9001, DIN EN ISO 14001, DIN EN ISO 50001, DIN ISO 45001 and DIN EN ISO/IEC 17025 support our claim to the highest quality and safety. We can thus guarantee products that meet the specific requirements of our customers. Your trust and satisfaction are the cornerstone of our business.

GfE is a subsidiary of AMG Advanced Metallurgical Group N.V., Netherlands, a global leader in the production of specialty metals and metallurgical vacuum furnace systems.

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