

Method of preparing composite powder for bulk materials and coatings produced in thermal spraying processes

Description of the solution:

The invention provides a method for manufacturing a composite powder for use as a volumetric material and for coatings, the components of which include hard boron carbide phases.

Benefits of the solution:

- Ability to produce boron carbide-rhenium dihydride (ReB_2) composite powder in larger quantities without additional purification.
- Obtaining sintered products with unimpaired or increased hardness and improved fracture resistance.
- Achieving better compaction of the sintered material produced from the composite powder.

Area of application:

Materials engineering, equipment construction.

Technology readiness level:

5

Intellectual property:

Invention: P.443143

Owner:

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