OVERVIEW

Committee B09 was established in 1944 and is currently responsible for 60 powder metallurgy standards that appear in Vol. 02.05 of the *Annual Book of ASTM of Standards*. Its nearly 100 members are composed of employees of metal powder producing companies, PM bearing and structural part manufacturers, academia, government departments and companies that use powder metallurgy components and materials. Because of our size, new members have the opportunity to participate immediately in the activities of the various subcommittees. We generally schedule our fall meeting in conjunction with an ASTM committee week and our spring meeting at a convenient Florida location.

B09 OFFICERS

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www.astm.org/COMMIT/B09

About ASTM International

ASTM International is one of the largest standards development and delivery systems in the world. ASTM standards are voluntary consensus documents that guide in research, design, manufacturing, marketing, and trade. For over a century, ASTM has met the technical needs of commerce by providing standards that are accepted and used around the world.

ASTM's market relevance is evident in more than 100 industrial and management sectors, ranging from construction materials and environmental assessment to medical devices and consumer products. There are 145 nations represented in ASTM International.

ASTM standards are developed by technical experts who are the members of ASTM International. Membership is open to all who have an interest in the standards affecting business and industry. You too can join the 30,000 individuals and institutions who set the standard for the rest of the world in ASTM International (www.astm.org/JOIN).

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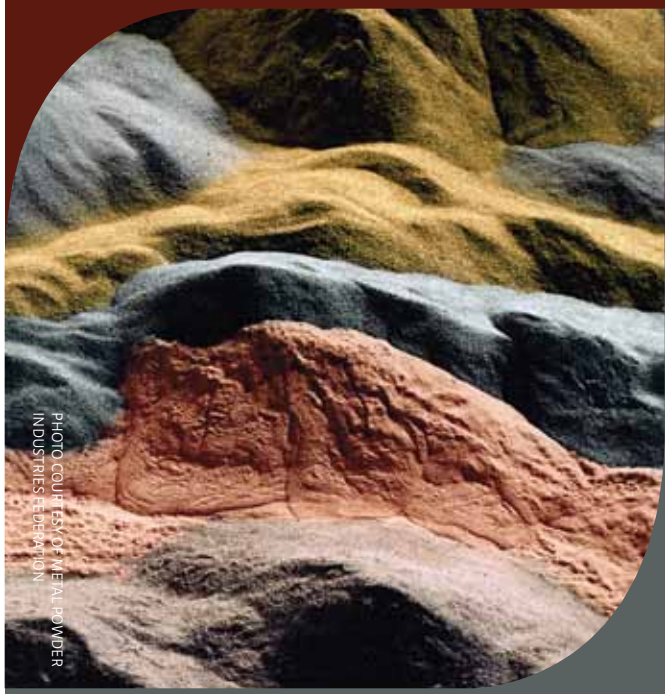
JOIN ASTM COMMITTEE B09 on Metal Powders and Metal Powder Products...



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...and Participate in Developing Standards for:

- Base Metal Powders (Fe, Cu, Ni, Co, etc.)
- Refractory Metal Powders (W, Mo, Ta, etc.)
- Powder Metallurgy (PM) Structural Parts
- PM Bearings
- Cemented Carbides (Hardmetals)
- Near Full Density PM Materials
- Nomenclature & Definitions
- ISO TC 119
- Metal Injection Molding (MIM) Materials

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Standards for Materials, Products, Systems and Services and the Promotion of Related Knowledge

The scope of ASTM Committee B09 on Metal Powders and Metal Powder Products includes the formulation of specifications and methods of test for metal powders and metal powder products.

Our members are scientists and engineers from the powder metallurgy (PM) industry, as well as users of PM products, the laboratories engaged in testing them, and purveyors of instrumentation used in testing. Our members work together to develop test methods, specifications, guides and practices, which are reviewed on a regular basis.

Powder metallurgy products offer the advantage of net-shape or near-net-shape fabrication, increasingly important in the automotive and power tool industries as a way to trim manufacturing costs, reduce weight and produce intricate parts without extensive machining. Cemented carbides are used extensively in tooling for machining, mining and oil drilling. Become a part of these exciting fields. Join B09 and participate in this important standards development work.

What is ASTM Committee B09?

B09 is a working organization of more than 75 individuals from metal and carbide powder producers, bearing and other powder metallurgy part manufacturers, end users of metal powders and PM parts, instrument manufacturers, and other interested parties. The committee meets twice a year to develop standards, sponsor technical symposia, and exchange information on every aspect of powder metallurgy. The work is coordinated with other ASTM technical committees and in cooperation with MPIF and similar groups in the U.S. and around the world.

Why join?

As an active member of B09 you will:

- Influence the development of high-quality, state-of-the-art test methods for powders and metal parts
- Influence specifications for powder metallurgy parts
- Interact with the most knowledgeable people in the field of powder metallurgy
- Have immediate access to proposed revisions to existing standards and drafts of standards under development
- Learn the proper format for reporting and comparing test results
- Become involved in interlaboratory testing and understand how this procedure helps to establish the precision of test methods

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Committee Structure

The subcommittees of B09 and their missions are listed below.

B09.01 – Terminology

This subcommittee is responsible for formalizing the definitions of those specialized terms used in the powder metallurgy industry. It maintains the Terminology Standard B 243, to ensure that all B09 specifications, test methods, guides, practices, and technical articles contain PM terminology that is clear, concise, current, and correct.

B09.02 – Base Metal Powders

This subcommittee is charged with the task of producing and maintaining standards for those chemical, physical and mechanical test methods and practices that pertain to base metal powders such as iron, steel, copper, tin, bronze, nickel, and aluminum that are used for the manufacture of PM structural parts and bearings. Excluded are powders used for rocket fuel, hard-facing, welding, paints, pharmaceuticals and other non-powder-metallurgy applications.

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B09.03 – Refractory Metal Powders

This subcommittee is responsible for developing and maintaining standards pertaining to refractory metal powders such as molybdenum, tungsten, tantalum, and titanium used in the manufacture of PM components, and in other applications. Included also are standards for some compounds of refractory metal powders, such as the carbides and oxides of tungsten and tantalum. In some of B09.03's standards, metal powders other than refractory metals are also included where applicable.

B09.04 – Bearings

This subcommittee is responsible for developing and maintaining material specifications and test methods that pertain to self-lubricating (oil-impregnated) bearings and bushings produced by powder metallurgy techniques.

B09.05 – Structural Parts

This subcommittee is responsible for developing and maintaining specifications, test methods, and other standards that cover sintered PM gears, cams, links and other parts used for mechanical applications that are produced by powder metallurgy manufacturing techniques. Excluded are parts produced by HIP, CIP, MIM and PF as well as cemented carbides.

B09.06 – Cemented Carbides

This subcommittee has the responsibility for developing and maintaining standards that pertain to cemented carbide (hardmetal)materials and components that are produced from tungsten carbide, tantalum carbide, titanium carbide, and other carbide powders with metallic binders such as nickel or cobalt using powder metallurgy processing methods.

B09.09 – U.S. Technical Advisory Group for ISO/TC 119

This subcommittee is the U.S. Technical Advisory Group (TAG) to the International Standards Organization's (ISO) Technical Committee 119 on Powder Metallurgy for standardization in the field of powder metallurgical materials, including terms, definitions, methods of test and specifications. The TAG conveys the consensus U.S. position on these matters. Metal powders used for purposes other than pressed, consolidated and sintered products are excluded.

B09.11 – Near Full Density PM Materials

This subcommittee is responsible for preparing and maintaining specifications, test methods, and other standards that cover PM products and materials with 5 % or less porosity. This includes specialized PM processing as well as cold isostatic pressing (CIP), hot isostatic pressing (HIP), metal injection molding (MIM), and powder forging (PF).

B09.92/B09.98 – Awards and Long-Range Planning

These subcommittees recommend awards and special events, plan meeting schedules and other activities, and provide future direction to the B09 committee, including recommendations for new standards and subcommittees. They also review and prepare revisions of the B09 Bylaws, as necessary.

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