

CROSS INDEX OF STANDARDS FOR METAL POWDERS AND METAL POWDER PRODUCTS

Standards referenced¹ include those of the ASTM International, Metal Powder Industries Federation (MPIF), Society of Automotive Engineers (SAE), and federal agencies, including the military. The standards may be obtained from the following sources:

¹ This cross index was first published in the compilation of "ASTM Standards on Metal Powders and Metal Powder Products," September 1959 and was last revised February 2002.

ASTM—ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428

MPIF—Metal Powder Industries Federation, 105 College Road East, Princeton, NJ 08540

SAE—Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA 15096

JAN, MIL, TT—Superintendent of Documents, U. S. Government Printing Office, Washington, DC 20402

CCPA—Cemented Carbide Producers Assn., 2130 Keith Building, Cleveland, OH 44115

Title	Designation			
	ASTM	MPIF	ISO	Other
Metal Powders				
<i>Specification(s) for:</i>				
Aluminum Powder and Paste Pigments for Paint	D 962	...	...	TT-P-320B
Aluminum Powder, Flaked, Grained and Atomized	...	...	...	MIL-A-512A
Antimony, Powdered, Technical	...	...	...	MIL-A-10841B
Brass Powder (for sintered parts)	...	...	...	MIL-B-11552B
Copper Powder (for use in ammunition)	...	...	...	JAN-C-768
Copper Powder for Use in Antifouling Paints	D 964	...	...	...
Gold Bronze Powder	D 267	...	...	TT-P-340
Iron Powder (for pyrotechnics)	...	...	...	MIL-I-12058A
Magnesium-Aluminum Alloy, Powdered	...	...	...	JAN-M-454
Magnesium Powder (for use in ammunition)	...	...	...	JAN-M-382A
Manganese, Powdered (for use in ammunition)	...	...	...	JAN-M-476A
Nickel Powder (for use in ammunition)	...	...	...	JAN-N-412A
Powders, Metal, Atomized (Aluminum, Magnesium, Magnesium-Aluminum)	...	...	...	MIL-P-14067B
Tin, Pulverized	...	...	...	JAN-T-458
Titanium, Powdered	...	...	...	MIL-T-13405
Tungsten, Powdered	...	...	...	MIL-T-13827
Zinc Dust (for use in pyrotechnics)	...	...	...	JAN-Z-365
Zinc Dust Pigment	D 520	...	...	TT-P-460 #1
Zirconium-Nickel Alloy Powder (for use in delay compositions)	...	...	...	MIL-Z-11410A
Zirconium, Powdered (for use in ammunition)	...	...	...	JAN-Z-399A
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Apparent Density of Free-Flowing Metal Powders	B 212	04	3923/1	...
Apparent Density of Metal Powders and Compounds Using the Scott Volumeter	B 329	...	3923/2	...
Apparent Density of Non-Free-Flowing Metal Powders	B 417	28	3923/1	...
Apparent Density of Powders Using Arnold Meter	B 703	48	...	...
Average Particle Size of Alumina and Silica Powder by Air Permeability	C 721	...	...	...
Average Particle Size of Powders of Refractory Metals and Their Compounds by the Fisher Sub-Sieve Sizer	B 330	...	...	...
Chemical Analysis of Zinc Dust (Metallic Zinc Powder)	D 521	...	...	...
Compressibility of Metal Powders in Uniaxial Compaction	B 331	45	3927	...
Compression Testing of Metallic Materials at Room Temperature	E 9	...	...	...
Determination of Properties of Sintered Bronze P/M Filter Powders	...	39	4003, 4022	...
Determination of Tap Density of Metallic Powders and Compounds	B 527	46	3953	...
Envelope Specific Surface from Measurement of Permeability of a Powder	...	...	10070	...
Bed under Steady State Flow, Determination of				
Flow Rate of Metal Powders	B 213	03	4490	...
Green Strength for Compacted Metal Powder Specimens	B 312	15	3995	...
Hydrogen Loss of Copper, Tungsten, and Iron Powders	E 159	02	4491, 4493	...
Liquid Dispersion of Metal Powders and Related Compounds for Particle Size Analysis	B 821	...	...	...
Lubricant Content in Lubricated Metal Powder Mixes—Modified Soxhlet Extraction Method, Determination of	...	...	13944	...

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Sieve Analysis of Granular Metal Powders	B 214	05	4497	MIL-STD-1233
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Testing Copper-Base Infiltrating Powders	...	49	...	...
Transverse Rupture Strength of Sintered Metal Powder Specimens	B 528	41	3325	...
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De-Agglomeration of Refractory Metal Powders and Their Compounds Prior to Particle Size Analysis	B 859	...	...	...
Reporting Particle Size Characteristics of Pigments	D 1366	...	...	...
Sampling Finished Lots of Metal Powders	B 215	01	3954	...
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Iron-Base Sintered Bearings (Oil-Impregnated)	B 439	35 ^A	5755/1	SAE J471d, MIL-B-5687D, MS21782
Iron Bronze Sintered Bearings (Oil-Impregnated)	B 612	35 ^A	...	...
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Sintered Bronze Bearings (Oil-Impregnated)	B 438/B 438M	35 ^A	...	MIL-B-5687D, MS17795, MS17796, MS21783
<i>Test Method(s) for:</i>				
Density, Oil Content, and Interconnected Porosity of Sintered Metal Structural Parts and Oil-Impregnated Bearings	B 328	42, 57	2737, 2738, 3369	...
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<i>Specification(s) for:</i>				
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Materials for Nonferrous Powder Metallurgy (P/M) Structural Parts	B 823	35 ^A	...	...
Metal Injection Molding (MIM), Ferrous Structural Parts	B 883	35 ^A	...	...
Powder Forged (P/F) Ferrous Structural Parts	B 848	35 ^A	...	...
Powder Metallurgy Iron-Copper and Copper Steel	...	35 ^A	5755/2	...
Powder Metallurgy (P/M) Boron Stainless Steel Structural Components	B 853	...	...	...
Powder Metallurgy (P/M) Titanium Alloy Structural Components	B 817	...	...	...
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Sintered Brass Structural Parts	B 282	35 ^A	...	MIL-B-12128C
Sintered Bronze Structural Parts	B 255	35 ^A	...	...
Sintered Copper Structural Parts for Electrical Conductivity Applications	B 715	...	...	...
Sintered Nickel Silver Structural Parts	B 458	35 ^A	...	...
Sintered Powder Metal Parts: Ferrous	...	...	...	SAE J471d
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Cemented Carbides				
<i>Specification(s) for:</i>				
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<i>Test Method(s) for:</i>				
Abrasive Wear Resistance of Cemented Carbides	B 611	...	...	...
Apparent Porosity in Cemented Carbides	B 276	...	...	CCPA M-201
Coercivity (HCS) of Cemented Carbides, Determination of	B 877	...	...	...
Compression Testing for Cemented Carbides	...	...	4506	CCPA P-104
Determination of Poisson's Ratio at Room Temperature for Cemented Carbides	...	...	...	CCPA P-105
Determination of Young's Modulus at Room Temperature for Cemented Carbides	...	...	...	CCPA P-106
Diametral Compression Testing of Cemented Carbides	...	...	...	CCPA P-115
Electrical Resistivity of Cemented Tungsten Carbides	...	...	...	CCPA M-203
Hardness Testing of Cemented Carbides	B 294	...	3738, 3878	CCPA P-103
Linear Thermal Expansion for Cemented Carbides	...	...	...	CCPA P-108
Magnetic Saturation (MS) of Cemented Carbides, Determination of	B 886	...	...	...
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^A MPIF has combined all powder metal structural parts and bearing specifications into Standard 35.

^B SAE has listed all ferrous sintered powder metal parts in Standards J471d using the identification numbers listed.