
INDEX – MPIF STANDARD 35 PUBLICATIONS

Comprehensive Alphabetical Listing & Guide to Material Systems & Designation Codes Used in the Family of MPIF Standard 35 Publications *Index Listing as of November 2009*

The MPIF Standard 35 family of publications comprises four separate publications dealing with materials for: conventional PM structural parts, PM self-lubricating bearings, powder forged (PF) steel and metal injection molded parts (MIM). The same materials may appear in more than one publication or section of the standard depending upon their common use, e.g. some structural materials may also be used in bearing applications and vice versa and stainless steel materials may be manufactured by more than one PM process, such as conventional PM or MIM, dependent upon part design and use.

The following index provides the user with a reference tool and a color-coded KEY to more easily locate the specific Standard 35 publication for the information on the standardized material needed for a specific application.

In this comprehensive index, *all* MPIF standardized material designation codes are listed alphabetically, followed by the name of the specific material system section of the standard where the chemical composition and/or mechanical property data can be found. Additional information is provided as to product usage within the ferrous and nonferrous material systems.

To stay in compliance, users of MPIF standards are cautioned to refer to the latest edition of any standard. This index will be revised periodically upon publication of any new standard edition or when new, individual standards are approved and posted on the MPIF Web site.

MPIF Standard 35 Publication

KEY

MIM	Materials Standards for Metal Injection Molded Parts
PF	Materials Standards for P/F Steel Parts
SLB	Materials Standards for PM Self-Lubricating Bearings
SP	Materials Standards for PM Structural Parts

Material Designation Code	Section Material System	Key	Ferrous					Nonferrous	
			Structural	SS	Controlled Expansion	Magnetics	Bearings	Structural	Bearings
C-0000	Copper and Copper Alloys	SP						X	
CFTG-3806-K	Diluted Bronze Bearings	SLB							X
CNZ-1818	Copper and Copper Alloys	SP						X	
CNZP-1816	Copper and Copper Alloys	SP						X	
CT-1000	Copper and Copper Alloys	SP						X	
CT-1000-K	Bronze Bearings	SLB							X
CTG-1001-K	Bronze Bearings	SLB							X
CTG-1004-K	Bronze Bearings	SLB							X
CZ-1000	Copper and Copper Alloys	SP						X	
CZ-2000	Copper and Copper Alloys	SP						X	
CZ-3000	Copper and Copper Alloys	SP						X	
CZP-1002	Copper and Copper Alloys	SP						X	
CZP-2002	Copper and Copper Alloys	SP						X	
CZP-3002	Copper and Copper Alloys	SP						X	
F-0000	Iron and Carbon Steel	SP	X						
F-0000-K	Iron and Iron-Carbon Bearings	SLB					X		
F-0005	Iron and Carbon Steel	SP	X						
F-0005-K	Iron and Iron-Carbon Bearings	SLB					X		
F-0008	Iron and Carbon Steel	SP	X						
F-0008-K	Iron and Iron-Carbon Bearings	SLB					X		
FC-0200	Iron-Copper and Copper Steel	SP	X						
FC-0200-K	Iron-Copper Bearings	SLB					X		
FC-0205	Iron-Copper and Copper Steel	SP	X						
FC-0205-K	Iron-Copper-Carbon Bearings	SLB					X		
FC-0208	Iron-Copper and Copper Steel	SP	X						
FC-0208-K	Iron-Copper-Carbon Bearings	SLB					X		
FC-0505	Iron-Copper and Copper Steel	SP	X						
FC-0508	Iron-Copper and Copper Steel	SP	X						
FC-0508-K	Iron-Copper-Carbon Bearings	SLB					X		
FC-0808	Iron-Copper and Copper Steel	SP	X						
FC-1000	Iron-Copper and Copper Steel	SP	X						
FC-1000-K	Iron-Copper Bearings	SLB					X		
FC-2000-K	Iron-Copper Bearings	SLB					X		
FC-2008-K	Iron-Copper-Carbon Bearings	SLB					X		
FCTG-3604-K	Diluted Bronze Bearings	SLB					X		
FD-0200	Diffusion-Alloyed Steel	SP	X						
FD-0205	Diffusion-Alloyed Steel	SP	X						
FD-0208	Diffusion-Alloyed Steel	SP	X						
FD-0400	Diffusion-Alloyed Steel	SP	X						
FD-0405	Diffusion-Alloyed Steel	SP	X						
FD-0408	Diffusion-Alloyed Steel	SP	X						
FDCT-1802-K	Diffusion-Alloyed Iron-Bronze Bearings	SLB					X		
FF-0000	Soft-Magnetic Alloys	SP				X			
FG-0303-K	Iron-Graphite Bearings	SLB					X		
FG-0308-K	Iron-Graphite Bearings	SLB					X		
FL-4005	Prealloyed Steel	SP	X						
FL-4205	Prealloyed Steel	SP	X						
FL-4400	Prealloyed Steel	SP	X						
FL-4405	Prealloyed Steel	SP	X						
FL-4605	Prealloyed Steel	SP	X						
FL-4805	Prealloyed Steel	SP	X						
FL-48105	Prealloyed Steel	SP	X						
FL-4905	Prealloyed Steel	SP	X						
FL-5208	Prealloyed Steel	SP	X						

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			Structural	SS	Controlled Expansion	Magnetics	Bearings	Structural	Bearings
FL-5305	Prealloyed Steel	SP	X						
	Sinter-Hardened Steel	SP	X						
FLC-4608	Sinter-Hardened Steel	SP	X						
FLC-4805	Sinter-Hardened Steel	SP	X						
FLC-48108	Sinter-Hardened Steel	SP	X						
FLC-4908	Sinter-Hardened Steel	SP	X						
FLC2-4808	Sinter-Hardened Steel	SP	X						
FLC2-5208	Sinter-Hardened Steel	SP	X						
FLDN2-4908	Diffusion-Alloyed Steel	SP	X						
FLDN4C2-4905	Diffusion-Alloyed Steel	SP	X						
FLN-4205	Hybrid Low-Alloy Steel	SP	X						
FLN-48108	Sinter-Hardened Steel	SP	X						
FLN2-4400	Hybrid Low-Alloy Steel	SP	X						
FLN2-4405	Hybrid Low-Alloy Steel	SP	X						
FLN2-4408	Sinter-Hardened Steel	SP	X						
FLN2C-4005	Hybrid Low-Alloy Steel	SP	X						
FLN4-4400	Hybrid Low-Alloy Steel	SP	X						
FLN4-4405	Hybrid Low-Alloy Steel	SP	X						
FLN4-4405(HTS)	Hybrid Low-Alloy Steel	SP	X						
FLN4-4408	Sinter-Hardened Steel	SP	X						
FLN4C-4005	Hybrid Low-Alloy Steel	SP	X						
FLN6-4405	Hybrid Low-Alloy Steel	SP	X						
FLN6-4408	Sinter-Hardened Steel	SP	X						
FLNC-4405	Hybrid Low-Alloy Steel	SP	X						
FLNC-4408	Sinter-Hardened Steel	SP	X						
FN-0200	Iron-Nickel and Nickel Steel	SP	X						
FN-0205	Iron-Nickel and Nickel Steel	SP	X						
FN-0208	Iron-Nickel and Nickel Steel	SP	X						
FN-0405	Iron-Nickel and Nickel Steel	SP	X						
FN-0408	Iron-Nickel and Nickel Steel	SP	X						
FN-5000	Soft-Magnetic Alloys	SP				X			
FS-0300	Soft-Magnetic Alloys	SP				X			
FX-1000	Copper-Infiltrated Iron and Steel	SP	X						
FX-1005	Copper-Infiltrated Iron and Steel	SP	X						
FX-1008	Copper-Infiltrated Iron and Steel	SP	X						
FX-2000	Copper-Infiltrated Iron and Steel	SP	X						
FX-2005	Copper-Infiltrated Iron and Steel	SP	X						
FX-2008	Copper-Infiltrated Iron and Steel	SP	X						
FY-4500	Soft-Magnetic Alloys	SP				X			
FY-8000	Soft-Magnetic Alloys	SP				X			
MIM-17-4 PH	Stainless Steels	MIM		X					
MIM-2200	Low-Alloy Steels	MIM	X						
MIM-2200	Soft-Magnetic Alloys	MIM				X			
MIM-2700	Low-Alloy Steels	MIM	X						
MIM-316L	Stainless Steels	MIM		X					
MIM-420	Stainless Steels	MIM		X					
MIM-430L	Stainless Steels	MIM		X					
	Soft-Magnetic Alloys	MIM				X			
MIM-4140	Low-Alloy Steels	MIM	X						
MIM-4605	Low-Alloy Steels	MIM	X						
MIM-F-15	Controlled-Expansion Alloys	MIM			X				
MIM-Fe-3% Si	Soft-Magnetic Alloys	MIM				X			
MIM-Fe-50% Co	Soft-Magnetic Alloys	MIM				X			
MIM-Fe-50% Ni	Soft-Magnetic Alloys	MIM				X			

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P/F-1020	Carbon Steel	PF	X						
P/F-1040	Carbon Steel	PF	X						
P/F-1060	Carbon Steel	PF	X						
P/F-10C40	Copper Steel	PF	X						
P/F-10C50	Copper Steel	PF	X						
P/F-10C60	Copper Steel	PF	X						
P/F-1140	Carbon Steel	PF	X						
P/F-1160	Carbon Steel	PF	X						
P/F-11C40	Copper Steel	PF	X						
P/F-11C50	Copper Steel	PF	X						
P/F-11C60	Copper Steel	PF	X						
P/F-4220	Low-Alloy P/F-42XX Steel	PF	X						
P/F-4240	Low-Alloy P/F-42XX Steel	PF	X						
P/F-4260	Low-Alloy P/F-42XX Steel	PF	X						
P/F-4620	Low-Alloy P/F-46XX Steel	PF	X						
P/F-4640	Low-Alloy P/F-46XX Steel	PF	X						
P/F-4660	Low-Alloy P/F-46XX Steel	PF	X						
P/F-4680	Low-Alloy P/F-46XX Steel	PF	X						
SS-303L	Stainless Steel - 300 Series Alloy	SP		X					
SS-303N1	Stainless Steel - 300 Series Alloy	SP		X					
SS-303N2	Stainless Steel - 300 Series Alloy	SP		X					
SS-304H	Stainless Steel - 300 Series Alloy	SP		X					
SS-304L	Stainless Steel - 300 Series Alloy	SP		X					
SS-304N1	Stainless Steel - 300 Series Alloy	SP		X					
SS-304N2	Stainless Steel - 300 Series Alloy	SP		X					
SS-316H	Stainless Steel - 300 Series Alloy	SP		X					
SS-316L	Stainless Steel - 300 Series Alloy	SP		X					
SS-316N1	Stainless Steel - 300 Series Alloy	SP		X					
SS-316N2	Stainless Steel - 300 Series Alloy	SP		X					
SS-409L	Stainless Steel - 400 Series Alloy	SP		X					
SS-409LE	Stainless Steel - 400 Series Alloy	SP		X					
SS-410	Stainless Steel - 400 Series Alloy	SP		X					
SS-410L	Stainless Steel - 400 Series Alloy	SP		X					
SS-430L	Stainless Steel - 400 Series Alloy	SP		X					
SS-430N2	Stainless Steel - 400 Series Alloy	SP		X					
SS-434L	Stainless Steel - 400 Series Alloy	SP		X					
SS-434LCb	Stainless Steel - 400 Series Alloy	SP		X					
SS-434N2	Stainless Steel - 400 Series Alloy	SP		X					

MATERIALS STANDARDS AVAILABLE FROM MPIF

The latest editions of MPIF materials standards are available for purchase in a variety of formats, including printed hard copy, on CDROM and in pdf electronic format. Quantity discounts are available. The following are the materials standards that are immediately available – click on the link(s) provided to verify or order the latest edition of any standard.

You may also contact the MPIF Publications Department at 609-945-0009 to place an order.
To ensure compliance, users of MPIF standards are cautioned to refer to the latest edition of any standard.

MPIF Standard 35 - Family of Materials Standards

For structural parts made by the PM (powder metallurgy) process, see MPIF Standard 35,

[“Materials Standards for PM Structural Materials”](#)

For bearings and bushings made by the PM process, see MPIF Standard 35,

[“Materials Standards for PM Self-Lubricating Bearings”](#)

For steel components made by the powder forging (P/F) process, see MPIF Standard 35,

[“Materials Standards for P/F Steel Parts”](#)

For components made by the metal injection molding (MIM) process, see MPIF Standard 35,

[“Materials Standards for Metal Injection Molded Parts”](#)



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