Powder Metallurgy Material Compositions (MPIF Standard 35 - US Standard)

Standard	Material Code	Density (g/cm3)	Hardness	Tensile Strength		Impact Test		Compositions (%)							
				Ultimate (MPa)	Yield (MPa)	Force (J)	Break (MPa)	Fe	Cu	C	Ni	Mo	Mn	Cr	Sn
MPIF Standard 35 (US Standard)	F-0000	6.1 - 6.7	HRF 40-60	120-170	90-120	4-8	250-340	Bal.		0-0.3					
	F-0005	6.1 - 6.9	HRB 25-55	170-260	120-190	4-7	330-520	Bal.		0.3-0.6					
	F-0008	5.8 - 7.0	HRB 35-70	200-390	170-260	3-7	350-690	Bal.		0.6-0.9					
	FC-0205	6.0 - 7.1	HRB 37-72	240-410	240-340	3-10	410-790	Bal.	1.5-3.9	0.3-0.6					
	FC-0205HT	6.2 -7.0	HRC 10-36	480-690	240-340	3-7	660-930	Bal.	1.5-3.9	0.3-0.6					
	FC-0208	5.8- 7.2	HRB 50-84	240-520	240-450	3-9	410-1070	Bal.	1.5-3.9	0.6-0.9					
	FC-0208HT	6.1 - 7.1	HRC 20-43	450-720	240-450	3-7	660-1030	Bal.	1.5-3.9	0.6-0.9					
	FN-0205	6.6 - 7.4	HRB 44-78	280-480	170-280	8-46	450-1030	Bal.	0-2.5	0.3-0.6	1-3				
	FN-0205HT	6.6 - 7.4	HRC 23-40	620-1280	170-280	5-13	830-1720	Bal.	0-2.5	0.3-0.6	1-3				
	FN-0208	6.7 - 7.4	HRB 63-88	310-620	240-380	7-28	590-1170	Bal.	0-2.5	0.6-0.9	1-3				
	FN-0208HT	6.7 - 7.4	HRC 26-42	620-1340	240-380	5-11	830-1720	Bal.	0-2.5	0.6-0.9	1-3				
	FLN2C-4005	6.7 -7.4	HRB 81-93	480-900	450-570	9-39	1000-1650	Bal.	1.3-1.7	0.4-0.7	1.5-2	0.4-0.6	0.05-0.3		
	FLN2C-4005HT	6.7 - 7.4	HRC 25-40	790-1650	450-1240	7-26	1280-2550	Bal.	1.3-1.7	0.4-0.7	1.5-2	0.4-0.6	0.05-0.3		
	FLNC-4408HT	6.8 - 7.2	HRC 21-30	660-970	660-970	9-22	1310-1720	Bal.	1-3	0.6-0.9	1-3	0.65-0.95	0.05-0.3		
	FD-0205	6.75 - 7.4	HRB 72-86	470-690	360-460	11-38	900-1450	Bal.	1.3-1.7	0.3-0.6	1.55-1.95	0.4-0.6	0.05-0.3		
	FD-0205HT	6.75 - 7.4	HRC 28-45	720-1170	720-1170	7-15	1100-1650	Bal.	1.3-1.7	0.3-0.6	1.55-1.95	0.4-0.6	0.05-0.3		
	FD-0208	6.75 - 7.25	HRB 80-90	480-710	400-500	9-23	930-1340	Bal.	1.3-1.7	0.6-0.9	1.55-1.95	0.4-0.6	0.05-0.3		
	FX-1008	7.3	HRB 89	600	410	14	1140	Bal.	8-14.9	0.6-0.9					
	FX-1008HT	7.3	HRC 43	830	410	9	1300	Bal.	8-14.9	0.6-0.9					
	FX-2008	7.3	HRB 90	550	480	9	1080	Bal.	15-25	0.6-0.9					
	FX-2008HT	7.3	HRC 36	690	480	7	1100	Bal.	15-25	0.6-0.9					
	SS-303L	6.6 - 6.9	HRB 21-35	270-330	120-170	54-75	570	Bal.		0-0.03	8-13		0-2	17-19	
	SS-304L	6.6 - 6.9	HRB 30-45	300-390	120-180	61-108	-	Bal.		0-0.03	8-12		0-2	18-20	
	SS-316L	6.6 - 6.9	HRB 20-45	280-390	140-210	47-88	550	Bal.		0-0.03	10-14	2-3	0-2	16-18	
	SS-410L	6.9	HRB 45	330	180	68	-	Bal.		0-0.03			0-1	11.5-13.5	
	CT-1000	7.2	HRH 82	150	110	5	310		87.5-90.5						9.5-10.5