Powder Metallurgy Material Compositions – DIN Standard

Standard	Material Code	Density (g/cm3)	Hardness	Tensile Strength		Compositions (%)							
				Ultimate (MPa)	Yield (MPa)	Fe	Cu	C	Ni	Mo	Mn	Cr	Sn
DIN 30910-4:2004-05 (Germany Standard)	Sint-C 01	6.4-6.8	>HRB 70	240	170	Bal.		0.5					
	Sint-D 01	6.8-7.2	>HRB 90	300	200	Bal.		0.5					
	Sint-C 10	6.4-6.8	>HRB 40	200	140	Bal.	1.5						
	Sint-D 10	6.8-7.2	>HRB 50	250	180	Bal.	1.5						
	Sint-E 10	>7.2	>HRB 80	340	240	Bal.	1.5						
	Sint-C 11	6.4-6.8	>HRB 80	390	290	Bal.	1.5	0.6					
	Sint-D 11	6.8-7.2	>HRB 95	460	370	Bal.	1.5	0.6					
	Sint-C 30	6.4-6.8	>HRB 55	360	290	Bal.	1.5	0.3	4.0	0.5			
	Sint-D 30	6.8-7.2	>HRB 60	460	330	Bal.	1.5	0.3	4.0	0.5			
	Sint-E 30	>7.2	>HRB 90	570	390	Bal.	1.5	0.3	4.0	0.5			
	Sint-C31	6.4-6.8	>HRB 50	320	220	Bal.		0.2	2.0	1.5			
	Sint-D31	6.8-7.2	>HRB 60	380	260	Bal.		0.2	2.0	1.5			
	Sint-E31	>7.2	>HRB 90	460	320	Bal.		0.2	2.0	1.5			
	Sint-C32	6.4-6.8	>HRB 55	400	370	Bal.	2.0	0.6		1.5			
	Sint-D32	6.8-7.2	>HRB 60	520	480	Bal.	2.0	0.6		1.5			
	Sint-C39	6.4-6.8	>HRB 90	480	350	Bal.	1.5	0.5	4.0	0.5			
	Sint-D39	6.8-7.2	>HRB 120	560	380	Bal.	1.5	0.5	4.0	0.5			
	Sint-C40	6.4-6.8	>HRB 95	330	250	Bal.		0.06	13	2.5		18	
	Sint-D40	6.8-7.2	>HRB 125	400	320	Bal.		0.06	13	2.5		18	
	Sint-C43	6.4-6.8	>HRB 165	510	370	Bal.		0.2				13	
	Sint-C50	7.2-7.7	>HRB 35	150	90		Bal.						10
	Sint-D50	7.7-8.1	>HRB 45	220	120		Bal.						10