

SCHUNK MECO MATERIAL TABLE

Meco	Material conv.	Standard	Density [g/cm ³]	Mechanical properties							
				Hardness [HV10]	Sintered Rm [MPa]	Rp0.2 [MPa]	Elongation [%]	Heat treated Hardness [HV10]	Rm [MPa]	Rp0.2 [MPa]	Elongation [%]
Low-alloy steels											
109	S720GP		7.5	150	350	200	15				
111	C60W	1.1740	7.5	150	600	300	10				
112	C90W3		7.45	160	570		13				
141	40NiCrMo4		7.45	150	600	360	10				
142	100Cr6	1.3505	7.4	330	1,000	700	5	500-700			
145	40NiCrMo2-2	1.6546 mod.	7.5	180	650	400	14.5	500-750	1,500	1,200	2.5
148	42CrMo4	1.7225	7.5	250	900	600	8				
155	S7	1.2355	7.5	400	1,000	700	8				
High-speed steels											
202	W6Mo5Cr4V2	1.3343	8.05	800-900	900-1,050	-	0.2	650-750	1,700	1,600	0.4
Stainless steels											
318	X5CrNiCuNb17-4-4	17-4PH 1.4542	7.6	350	1,000	660	3	350	1,000	900	7
321	X2CrNiMo17-12-2	316L 1.4404	7.6	120	500	200	35				
392	X40CrNiNb25-20-1	HK-30 1.4841 mod.	7.5	180	650	250	20				
395	X15CrNiSi25-20	1.4841	7.55	320	500	400	0.2				
398	X120CrMoSi34-2-2		7.25	310	750	600	1				
426	X220NiCrMo40-12-6	GHS-4	7.95	350	800	500	1.3				
427	X110CrNiMoW35-10-3	1.4091	7.42	310	1,000	550	10				
428	X110CrNiMoW35-10-3	1.4091	7.6	300	750	550	1.5	370	600	n.b.	< 1
479	X155CrMnV12-1-1	1.2379	7.55					700	1,000	800	< 1
Soft magnetic materials											
530	X6Cr17	430L		7.5	115	400	300	15			
552	FeNi35			7.9	110	400	240	30			
554	FeSi3			7.55	150	520	380	22			
Copper-based materials											
601	Cu99.9	2.0060	8.5	36	200	75	40				
604	CuNiSiCr0.4	2.0855	8.4	180	580	500	10				
Nickel-based materials											
700	IN625	2.4856	8.2	160HV1	650	280	50				
713	Inconel 713LC	IN713 2.4670	7.9	330-380	1,310	775	21				
755	MAR-M-247	MAR-247	8.5	340-390	1,350	820	19				
790	Nimonic 90	Alloy 90 2.4632	7.95	340	1,100	700	15				
Cobalt-based materials											
806	Co28Cr4.5WC		8	360	900	700	2				
812	Co30Cr8.5WC		8.2	440	1,000	900	2				
840	Co29Mo8.5CrSi		8.7	700	630	-	0.2				

These are our standard materials. We would be happy to work with you to develop your desired material, material composite or composite material. Further heat treatments to achieve the desired properties are possible on request.