

DIN EN 10027-2 material number	DIN EN 10027-2 (short) designation	Surface hardness in Vickers [HV0.5]	max. Nitriding hardness depth (NHD) [mm]
Carbon steel			
1.0060	E335	280-500	0.6
1.0577	S355	280-480	0.6
1.1191	C 45 E	300-500	0.7
1.1221	C 60 E	300-500	0.7
1.5122	37MnSi5	300-500	0.6
Tempered steel			
1.0762	44SMn28 (ETG 100)	400-500	0.3
1.7033	34Cr4	500-600	0.5
1.7220	34CrMo4	500-600	0.5
1.7225 / 1.7227	42CrMo4 / 42CrMoS4	550-700	0.5
1.8159	50CrV4	550-700	0.5
1.8161	58CrV4	550-700	0.5
1.6582	34CrNiMo6	600-800	0.5
1.2710	45NiCr6	600-750	0.4
1.2312	40CrMnMoS86	650-800	0.3
Case-hardening steel			
1.7131 / 1.7139	16MnCr5 / 16MnCrS5	600-750	0.5
1.7147	20MnCr5	600-650	0.4
1.5752	14NiCr14	500-650	0.4
Nitrided steel			
1.8504	34CrAl6	900-1200	0.4
1.8507	34CrAlMo5	900-1300	0.5
1.8519	31CrMoV9	780-900	0.5
1.8550	34CrAlNi7	900-1100	0.5
Ball bearing steel			
1.3505	100Cr6	450-700	0.25
1.2510	100MnCrW4	500-700	0.25
Grey cast iron – Nodular cast iron			
0.6025	EN-GJL-250 (GG 25)	300-450	0.3
0.7080	EN-GJS-600 (GGG 60)	450-600	0.4
Stainless steel			
1.4006	X10Cr13	900-1100	0.1
1.4021	X20Cr13	900-1200	0.1
1.4034	X40Cr13	900-1200	0.1
1.4122	X35CrBo17	1000-1250	0.15
1.4571	X10CrNiMoTi1712-2	900-1150	0.1
Cold work steel			
1.2379	X155CrMoV121	900-1200	0.15
1.2080	X210Cr12	850-1150	0.15
1.2364	X100CrMoV51	1000-1200	0.2
1.2601	X165CrMoV12	900-1150	0.15
1.2436	X210CrV12	700-900	0.15
Hot work steel			
1.2343	X38CrMoV51	900-1150	0.4
1.2344	X40CrMoV51	900-1150	0.4
1.2567	X30WCrV53	850-1050	0.3
1.2365	X32CrMoV33	750-900	0.3
High Speed Steel (HSS)			
All qualities		950-1400	0.02-0.15