

## Material specifications shown in HASCO-catalogues

\*) For further details about tool steels, please refer to the HASCO-Material specification leaflets.

Alloy group		Material No.	DIN-Classification
Denomination	Abbreviation		
<b>1. Cast iron</b>		0.6025 0.7060 0.6030	GG-25 GGG-60 GG-30
<b>2. Steel grades</b>			
2.1 General-purpose steel		1.0570	St 52-3
2.2 Free-cutting steel		1.0711 1.0715 1.0718	9 S 20 9 S Mn 28 9 S MnPb 28
2.3 Case hardening steel		1.0401 1.7131	C 15 16 MnCr 5
2.4 Pre-hardened steel		1.0501 1.0503 1.1181 1.1191 1.5223 1.6541 1.6758 1.7218 1.7225 1.8159	C 35 C 45 Ck 35 Ck 45 42 MnV 7 23 MnNiCrMo 5-2 23 MnNiMoCr 5-4 25 CrMo 4 42 CrMo 4 50 CrV 4
2.5 Spring steel		1.1274	Ck 101
2.6 Ball and roller bearing steel		1.3505	100 Cr 6
2.7 Nitriding steel		1.8515	31 CrMo 12
2.8 Tool steel*		1.1730 1.2083 1.2085 1.2162 1.2311 1.2312 1.2343 1.2379 1.2764 1.2767	C 45 W 3 X 42 Cr 13 X 33 CrS 16 21 MnCr 5 40 CrMnMo 7 40 CrMnMoS 86 X 38 CrMoV 51 X 155 CrVMo 12 1 X 19 NiCrMo 4 X 45 NiCrMo 4
2.8.1 Cold work steel (e.g. Z 40 / ... ; Z 441 / ...)	WS	1.2067 1.2210 1.2516	100 Cr6 115 CrV3 120 WV4
2.8.2 Hot work steel (e.g. Z 41 / ... ; Z 43 / ...)	WAS	1.2343 1.2344	X 38 CrMo V5 1 X 40 CrMo V5 1
2.9 High speed steel	HSS	1.3343 (or similar)	S6-5-2
2.10 Stainless steel		1.4305	X 10 CrNiS 18 9
<b>3. Nonferrous metals</b>			
3.1 Aluminum		3.2315 3.3535 3.4365	AlMgSi 1 AlMg 3 AlZnMgCu 1.5
3.2 Brass		2.0321 2.0401 2.0492 2.0550 2.0975	CuZn 37 CuZn 39 Pb 3 CuZn 15 Si 4 CuZn 40 Al 2 CuAl 10 Ni
3.3 Copper		2.0060 2.1285	E-Cu 57 CuCoBe
3.4 Titanium		3.7165	TiAl 6 V4