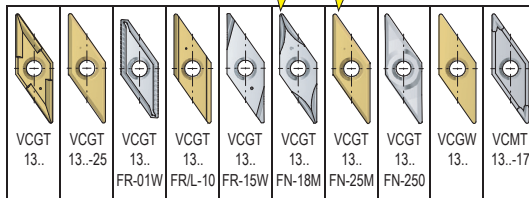




Caution: General safety regulations and directions of machine manufacturers must be observed at any time!

Material description	W-Nr. German	AISI/SAE	Tensile strength	Hardness
			Rm (N/mm ²)	HB
1 Low Carbon Steel	1.0035 1.0038 1.0401 1.0050	1010 1045 1015 1050	- 500	- 160
2 Alloy Steel	1.0501 1.1141 1.5732 1.7225	1035 1115 3415 4140	500 - 700	140 - 200
3 Tool Steel	1.1221 1.3505 1.7225 1.5141	1060 52100 4140 -	900 - 1'100	170 - 275
4 Alloy Tool Steel	1.1191 1.7225 1.2080 1.7220	4140 4142 D3 4135	700 - 900	250 - 325
5 Alloy Cast Steel	1.6582 1.8159 1.2367 1.7361	4340 6150 A2 4145	1'100 - 1'500 800 - 1'000	325 - 450 250 - 300 330 - 390
6 Stainless Steel	1.4006 1.4057 1.4034 1.4005	403 431 420 416	- 800	- 250
7 Stainless Steel - Austenitic, Martensitic	1.4300 1.4301 1.4435 1.4542	302 304 (304H) 316 17-4 ph	500 - 1100	200 - 325
8 Grey Cast Iron	0.6010 0.6015 0.6020	A48-20B A48-25B A48-30B	- 250	- 200
9 Cast Iron Malleable	0.6025 0.8135 0.8140 0.7050	A48-35B A48-40B A48-45B 80-55-06	250 - 350	200 - 250
10 Copper Alloys	2.0331 2.0401 2.1030 2.0920	B121 B121 B103 CuAl 8	450 - 650	120 - 180
11 Aluminium Alloys	3.2582.05 3.3541.01 3.2315 3.0205	383.2 (ALSi-12) 514.0 (AlMg 3) 413.0 (ALMgSi 1) 1200 (AL 99)	250 - 350	200 - 300



f (ipr) *)										
.0031	.0016	.0020	.0012	.0016					.0031	
.0039	.0039	.0039	.0024	.0031					.0059	
.0118	.0079	.0098	.0047	.0059					.0118	
.0031	.0016	.0020	.0012	.0016					.0031	
.0039	.0039	.0039	.0024	.0031					.0059	
.0118	.0079	.0098	.0047	.0059					.0118	
.0031	.0012	.0020	.0012	.0012					.0031	
.0039	.0024	.0039	.0024	.0024					.0059	
.0118	.0039	.0059	.0047	.0047					.0098	
.0031	.0012	.0020	.0012	.0012					.0031	
.0039	.0024	.0039	.0024	.0024					.0059	
.0118	.0039	.0059	.0047	.0047					.0098	
.0031	.0012	.0020	.0012						.0031	
.0039	.0020	.0039	.0020						.0059	
.0118	.0039	.0039	.0039						.0059	
.0031	.0020	.0016	.0020	.0016	.0016		.0020		.0031	
.0039	.0039	.0031	.0039	.0024	.0031		.0039		.0059	
.0118	.0059	.0059	.0059	.0047	.0059		.0059		.0079	
.0031	.0020	.0012	.0020	.0012	.0012		.0020		.0031	
.0039	.0039	.0024	.0039	.0024	.0024		.0039		.0059	
.0118	.0059	.0039	.0059	.0047	.0047		.0059		.0079	
.0020								.0020	.0039	
.0059								.0059	.0079	
.0098								.0098	.0118	
.0020								.0020	.0031	
.0059								.0059	.0059	
.0098								.0098	.0098	
.0020	.0020	.0020	.0020	.0020	.0020	.0020	.0020	.0011	.0020	
.0059	.0059	.0039	.0059	.0059	.0059	.0059	.0059	.0059	.0059	
.0118	.0098	.0079	.0118	.0118	.0118	.0118	.0098	.0157	.0118	
.0031	.0039		.0020	.0039	.0039	.0039	.0039			
.0078	.0078		.0059	.0079	.0079	.0079	.0078			
.0118	.0157		.0098	.0157	.0157	.0157	.0157			

Carbide				Cermet				
uncoated		coated		uncoated		coated		
DX2		DX20 DX32	DX30 DX50 DX52	DC15	DT10	DT55	DT210 DT310	DT255 DT355
Vc (sfm)								
495		1122	1353	1188	1980	1914	1980	1914
429		957	1221	1122	1650	1551	1650	1551
297		792	1089	1023	1155	1056	1155	1056
396		1056	1155	1089	1881	1947		
297		891	1089	990	1551	1452		
198		726	957	825	1056	924		
297		858	925	858	1750	1680		
231		693	858	726	1450	1380		
165		561	759	660	1020	950		
200		790	850	790	950	890		
165		725	790	725	850	790		
130		625	690	660	590	560		
		460	525	460	790	725		
		390	430	400	690	625		
		300	360	330	560	500		
400		790	850				1050	1050
300		725	790				990	990
230		560	625				890	890
330		560	625				825	825
230		396	525				690	690
165		330	425				590	590
525		750	825	750	890	825		
425		675	750	690	825	725		
330		560	660	625	725	660		
396		460	496	425	600	560		
300		360	396	396	525	500		
230		300	330	300	460	425		
1800		2300	2650	2650			2650	2650
1650		1980	2300	2300			2300	2300
1300		1650	1980	1980			1980	1980
2650		>3300	>3300					
1650								
990								

*) in function of stability of tool & workpiece

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