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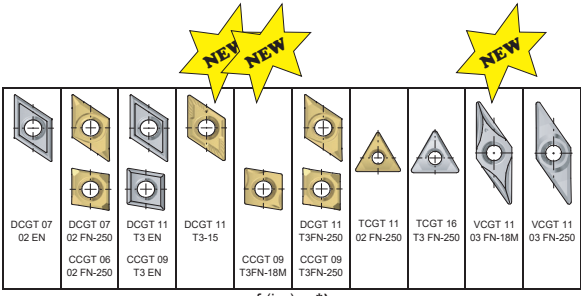


ISO-Tools / SwissLine® ISO-Tools

DENITTOOL-DATA

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



	1.0035 1.0038 1.0401 1.0050	1010 1045 1015 1050	- 500	- 160
1 Low Carbon Steel				
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) *									
.0028 +	.0031 +	.0012 +	.0012 +					.0008 +	
.0079	.0120	.0047	.0059					.0047	
.0028 +	.0031 +	.0012 +	.0012 +					.0008 +	
.0079	.0120	.0047	.0059					.0047	
.0024 +	.0031 +	.0012 +	.0012 +					.0008 +	
.0059	.0098	.0039	.0039					.0031	
.0024 +	.0031 +	.0012 +	.0012 +					.0008 +	
.0059	.0098	.0039	.0039					.0031	
.0024 +	.0031 +	.0008 +	.0008 +	.0008 +	.0008 +	.0008 +	.0008 +	.0008 +	
.0059	.0098	.0059	.0059	.0047	.0047	.0047	.0047	.0047	
.0024 +	.0031 +	.0008 +	.0008 +	.0008 +	.0008 +	.0008 +	.0008 +	.0008 +	
.0059	.0098	.0059	.0059	.0047	.0047	.0047	.0047	.0047	
.0020 +	.0020 +								
.0120	.0157								
.0020 +	.0020 +								
.0059	.0098								
.0039 +	.0008 +	.0039 +	.0008 +	.0008 +	.0008 +	.0008 +	.0008 +	.0008 +	
.0138	.0059	.0157	.0039	.0039	.0059	.0059	.0060	.0059	
	.0008 +		.0008 +	.0008 +	.0008 +	.0008 +	.0008 +	.0008 +	
	.0120		.0059	.0059	.0120	.0120	.0121	.0079	

Carbide				Cermet			
un coated	coated			un coated	coated		
DX2	DX20 DX32	DX30 DX50 DX52	DC10	DT55	DT255	DT355	
725 560 425	1120 960 790		1190 990 825	1510 1220 825	1910 1550 1050	1910 1550 1051	
	1060 890 725		1090 925 760	1450 1150 725	1810 1450 925	1810 1450 926	
	860 690 560		990 790 660	1350 1120 760	1680 1385 960	1680 1385 961	
	790 725 625		825 660 500	725 660 460	890 790 560	890 790 561	
	660 525 400		600 460 330	600 500 400	725 625 500	725 625 501	
	525 460	560 525			660 625	660 625	
	400 330	425 360			500 425	500 426	
			860 760 700	600 525 425	1120 925 790	1190 1050 990	
			725 660 600	525 400 300	925 860 790	1050 925 860	
1485 1320 1150	1810 1650 1485	1980 1810 1650	1650 1485 1320	1910 1710 1485	2370 2145 1910	2575 2375 2145	
>2640	>6270	>6600					

*) in function of stability of tool & workpiece

