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# HARDMETAAL

STANDAARD VORMDELEN 2018-03





# HARDMETAAL ALS KERNCOMPETENTIE





## PRIJSLIJST STANDAARD HARDMETAAL VORMDELEN

2018 - 03

### KWALITEIT HARDMETAAL

HARDMETAAL **MICRON** [ Hardmetaal Micrograin K10 ]

KORRELGROOTTE 0,7 ~ 0,9µm

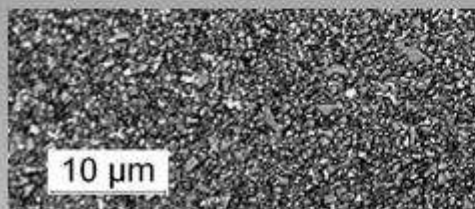
BINDING 10% Co

HARDHEID 1620 HV<sup>30</sup> | 92,1 HRa

DICHTHEID 14,2 g/cm<sup>3</sup>

TAAIHEID 9,8 N/mm<sup>2</sup> m<sup>1/2</sup>

STRUCTUUR



### TOLERANTIES

RUW GESLEPEN

afm. 0,5 ~ 3,5 = + 0,25 / 0,35mm

afm. 4,0 ~ 6,0 = + 0,25 / 0,40mm

afm. 6,5 ~ 12,5 = + 0,30 / 0,45mm

afm. 12,5 ~ 16,0 = + 0,35 / 0,50mm

afm. 22,5 ~ 45,0 = + 0,45 / 0,60mm

GESLEPEN

h6



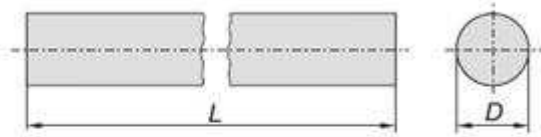




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# HARDMETAAL ALS KERNCOMPETENTIE

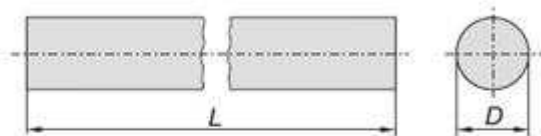




- HARDMETAAL STANDAARD VORMDEEL
- ROND
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

D mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
2,0	100	GDFCG0200100	1,49	RDFCR0200100	2,22
2,0	330	GSFCG0200330	3,06	RSFCR0200330	4,68
2,5	100	GDFCG0250100	1,85	RDFCR0250100	2,66
2,5	330	GSFCG0250330	4,39	RSFCR0250330	6,29
3,0	100	GDFCG0300100	2,22	RDFCR0300100	2,98
3,0	330	GSFCG0300330	5,60	RSFCR0300330	7,29
3,5	100	GDFCG0350100	2,54	RDFCR0350100	3,35
3,5	330	GSFCG0350330	6,77	RSFCR0350330	9,11
4,0	100	GDFCG0400100	2,86	RDFCR0400100	3,71
4,0	330	GSFCG0400330	7,35	RSFCR0400330	10,08
4,5	100	GDFCG0450100	3,59	RDFCR0450100	4,43
4,5	330	GSFCG0450330	9,84	RSFCR0450330	12,74
5,0	100	GDFCG0500100	3,99	RDFCR0500100	4,92
5,0	330	GSFCG0500330	11,29	RSFCR0500330	16,29
5,5	100	GDFCG0550100	4,76	RDFCR0550100	5,76
5,5	330	GSFCG0550330	13,83	RSFCR0550330	18,42
6,0	100	GDFCG0600100	5,40	RDFCR0600100	6,57
6,0	330	GSFCG0600330	16,29	RSFCR0600330	20,53
6,5	100	GDFCG0650100	6,01	RDFCR0650100	7,22
6,5	330	GSFCG0650330	18,95	RSFCR0650330	23,02
7,0	100	GDFCG0700100	6,49	RDFCR0700100	7,90
7,0	330	GSFCG0700330	21,25	RSFCR0700330	25,28

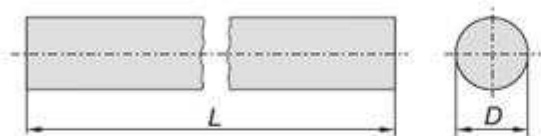




- HARDMETAAL STANDAARD VORMDEEL
- ROND
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

D mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
7,5	100	GDFCG0750100	7,58	RDFCR0750100	8,99
7,5	330	GSFCG0750330	24,23	RSFCR0750330	28,66
8,0	100	GDFCG0800100	8,63	RDFCR0800100	10,12
8,0	330	GSFCG0800330	27,33	RSFCR0800330	32,25
8,5	100	GDFCG0850100	9,64	RDFCR0850100	11,09
8,5	330	GSFCG0850330	31,08	RSFCR0850330	35,44
9,0	100	GDFCG0900100	10,60	RDFCR0900100	12,09
9,0	330	GSFCG0900330	34,59	RSFCR0900330	38,66
9,5	100	GDFCG0950100	11,81	RDFCR0950100	13,18
9,5	330	GSFCG0950330	38,06	RSFCR0950330	42,17
10,0	100	GDFCG1000100	13,10	RDFCR1000100	14,43
10,0	330	GSFCG1000330	41,97	RSFCR1000330	46,28
10,5	100	GDFCG1050100	14,47	RDFCR1050100	15,96
10,5	330	GSFCG1050330	46,64	RSFCR1050330	50,92
11,0	100	GDFCG1100100	15,76	RDFCR1100100	17,54
11,0	330	GSFCG1100330	50,88	RSFCR1100330	55,88
11,5	100	GDFCG1150100	17,09	RDFCR1150100	18,79
11,5	330	GSFCG1150330	55,51	RSFCR1150330	59,42
12,0	100	GDFCG1200100	18,87	RDFCR1200100	20,56
12,0	330	GSFCG1200330	60,15	RSFCR1200330	65,51
12,5	100	GDFCG1250100	20,24	RDFCR1250100	21,93
12,5	330	GSFCG1250330	65,59	RSFCR1250330	70,03

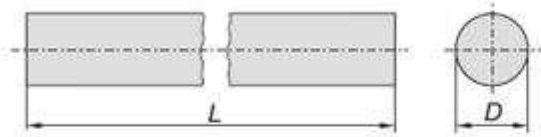




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- ROND
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

D mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
13,0	100	GDFCG1300100	21,69	RDFCR1300100	23,22
13,0	330	GSFCG1300330	70,99	RSFCR1300330	74,18
13,5	100	GDFCG1350100	23,58	RDFCR1350100	25,40
13,5	330	GSFCG1350330	76,80	RSFCR1350330	81,68
14,0	100	GDFCG1400100	25,40	RDFCR1400100	27,45
14,0	330	GSFCG1400330	81,23	RSFCR1400330	85,10
14,5	100	GDFCG1450100	27,21	RDFCR1450100	28,99
14,5	330	GSFCG1450330	86,68	RSFCR1450330	90,79
15,0	100	GDFCG1500100	28,10	RDFCR1500100	30,60
15,0	330	GSFCG1500330	92,72	RSFCR1500330	96,59
15,5	100	GDFCG1550100	29,87	RDFCR1550100	32,41
15,5	330	GSFCG1550330	97,60	RSFCR1550330	101,47
16,0	100	GDFCG1600100	31,97	RDFCR1600100	34,27
16,0	330	GSFCG1600330	103,57	RSFCR1600330	107,28
16,5	100	GDFCG1650100	33,90	RDFCR1650100	36,04
16,5	330	GSFCG1650330	110,06	RSFCR1650330	113,32
17,0	100	GDFCG1700100	36,00	RDFCR1700100	37,90
17,0	330	GSFCG1700330	116,87	RSFCR1700330	120,02
17,5	100	GDFCG1750100	38,10	RDFCR1750100	39,79
17,5	330	GSFCG1750330	123,72	RSFCR1750330	127,55
18,0	100	GDFCG1800100	40,35	RDFCR1800100	41,73
18,0	330	GSFCG1800330	130,78	RSFCR1800330	134,17



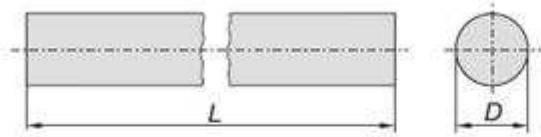


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- ROND
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D mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
18,5	100	GDFCG1850100	42,37	RDFCR1850100	43,82
18,5	330	GSFCG1850330	137,83	RSFCR1850330	141,91
19,0	100	GDFCG1900100	45,15	RDFCR1900100	45,92
19,0	330	GSFCG1900330	147,11	RSFCR1900330	150,65
19,5	100	GDFCG1950100	48,09	RDFCR1950100	49,18
19,5	330	GSFCG1950330	153,84	RSFCR1950330	157,91
20,0	100	GDFCG2000100	48,53	RDFCR2000100	52,41
20,0	330	GSFCG2000330	158,02	RSFCR2000330	161,89
20,5	330	GSFCG2050330	165,45	RSFCR2050330	168,82
21,0	100	GDFCG2100100	53,52	RDFCR2100100	56,50
21,0	330	GSFCG2100330	174,35	RSFCR2100330	178,03
21,5	330	GSFCG2150330	182,98	RSFCR2150330	186,54
22,0	100	GDFCG2200100	59,06	RDFCR2200100	62,62
22,0	330	GSFCG2200330	191,61	RSFCR2200330	195,75
22,5	330	GSFCG2250330	200,32	RSFCR2250330	204,85
23,0	100	GDFCG2300100	63,47	RDFCR2300100	67,53
23,0	330	GSFCG2300330	209,45	RSFCR2300330	213,75
23,5	330	GSFCG2350330	218,55	RSFCR2350330	222,92
24,0	100	GDFCG2400100	68,97	RDFCR2400100	72,06
24,0	330	GSFCG2400330	228,30	RSFCR2400330	232,21
24,5	330	GSFCG2450330	236,12	RSFCR2450330	241,03
25,0	100	GDFCG2500100	74,73	RDFCR2500100	77,40
25,0	330	GSFCG2500330	246,07	RSFCR2500330	250,21



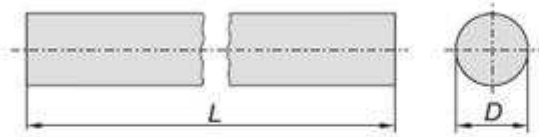




- HARDMETAAL STANDAARD VORMDEEL
- ROND
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

D mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
26,0	100	GDFCG2600100	80,62	RDFCR2600100	83,44
26,0	330	GSFCG2600330	267,74	RSFCR2600330	272,46
27,0	330	GSFCG2700330	285,85	RSFCR2700330	290,26
28,0	330	GSFCG2800330	307,18	RSFCR2800330	312,09
29,0	330	GSFCG2900330	332,25	RSFCR2900330	337,40
30,0	330	GSFCG3000330	340,13	RSFCR3000330	344,63
31,0	330	GSFCG3100330	363,94	RSFCR3100330	367,85
32,0	330	GSFCG3300330	387,72	RSFCR3300330	391,82
33,0	330	GSFCG3300330	412,58	RSFCR3300330	416,60
34,0	330	GSFCG3400330	438,56	RSFCR3400330	443,21
35,0	330	GSFCG3500330	465,80	RSFCR3500330	470,45
36,0	330	GSFCG3600330	494,60	RSFCR3600330	500,14
38,0	330	GSFCG3800330	552,21	RSFCR3800330	558,05
40,0	330	GSFCG4000330	612,27	RSFCR4000330	624,33
45,0	330	GSFCG4500330	770,24	RSFCR4500330	818,69

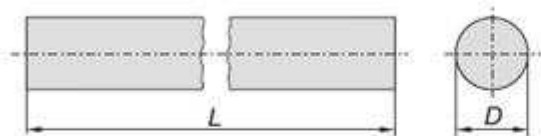




- HARDMETAAL STANDAARD VORMDEEL
- ROND [ FIX- lengtes ]
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

D mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
2,0	80	GDFCG0200080	1,21	RDFCR0200080	1,81
3,0	38	GDFCG0300038	0,85	RDFCR0300038	1,13
3,0	40	GDFCG0300040	0,93	RDFCR0300040	1,21
3,0	50	GDFCG0300050	1,13	RDFCR0300050	1,49
3,0	61	GDFCG0300061	1,41	RDFCR0300061	1,81
3,0	70	GDFCG0300070	1,57	RDFCR0300070	2,14
3,0	75	GDFCG0300075	1,73	RDFCR0300075	2,30
3,5	70	GDFCG0350070	1,77	RDFCR0350070	2,38
3,5	75	GDFCG0350075	1,94	RDFCR0350075	2,54
4,0	40	GDFCG0400040	1,13	RDFCR0400040	1,49
4,0	50	GDFCG0400050	1,45	RDFCR0400050	1,85
4,0	55	GDFCG0400055	1,57	RDFCR0400055	2,06
4,0	60	GDFCG0400060	1,73	RDFCR0400060	2,26
4,0	75	GDFCG0400075	2,14	RDFCR0400075	2,78
4,0	80	GDFCG0400080	2,30	RDFCR0400080	2,94
4,0	92	GDFCG0400092	2,58	RDFCR0400092	3,43
4,5	58	GDFCG0450058	2,06	RDFCR0450058	2,58
4,5	80	GDFCG0450080	2,86	RDFCR0450080	3,59
4,5	86	GDFCG0450086	3,06	RDFCR0450086	3,83
5,0	50	GDFCG0500050	2,02	RDFCR0500050	2,50
5,0	62	GDFCG0500062	2,42	RDFCR0500062	3,06
5,0	66	GDFCG0500066	2,66	RDFCR0500066	3,27
5,0	75	GDFCG0500075	2,98	RDFCR0500075	3,67

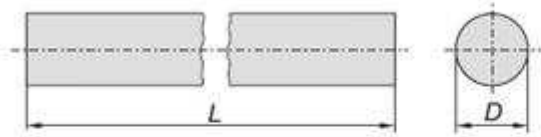




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- ROND [ FIX- lengtes ]
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

D mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
5,0	86	GDFCG0500086	3,47	RDFCR0500086	4,23
5,0	93	GDFCG0500093	3,67	RDFCR0500093	4,56
5,5	93	GDFCG0550093	4,43	RDFCR0550093	5,36
6,0	50	GDFCG0600050	2,74	RDFCR0600050	3,31
6,0	54	GDFCG0600054	2,94	RDFCR0600054	3,51
6,0	57	GDFCG0600057	3,10	RDFCR0600057	3,71
6,0	60	GDFCG0600060	3,27	RDFCR0600060	3,91
6,0	66	GDFCG0600066	3,63	RDFCR0600066	4,35
6,0	70	GDFCG0600070	3,83	RDFCR0600070	4,60
6,0	75	GDFCG0600075	4,07	RDFCR0600075	4,92
6,0	80	GDFCG0600080	4,35	RDFCR0600080	5,20
6,0	93	GDFCG0600093	5,08	RDFCR0600093	6,09
6,0	150	GDFCG0600150	8,14	RDFCR0600150	9,80
6,5	70	GDFCG0650070	4,23	RDFCR0650070	5,08
6,5	109	GDFCG0650109	6,57	RDFCR0650109	7,82
7,0	60	GDFCG0700060	3,99	RDFCR0700060	4,76
7,0	80	GDFCG0700080	5,32	RDFCR0700080	6,33
7,5	109	GDFCG0750109	8,30	RDFCR0750109	9,80
7,5	117	GDFCG0750117	8,87	RDFCR0750117	10,48
8,0	60	GDFCG0800060	5,20	RDFCR0800060	6,13
8,0	63	GDFCG0800063	5,48	RDFCR0800063	6,37
8,0	75	GDFCG0800075	6,49	RDFCR0800075	7,58
8,0	80	GDFCG0800080	6,94	RDFCR0800080	8,10

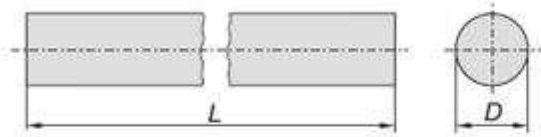




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- ROND [ FIX- lengtes ]
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

D mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
8,0	117	GDFCG0800117	10,12	RDFCR0800117	11,81
8,0	150	GDFCG0800150	12,94	RDFCR0800150	15,08
8,5	79	GDFCG0850079	7,62	RDFCR0850079	8,75
8,5	125	GDFCG0850125	12,05	RDFCR0850125	13,71
9,0	66	GDFCG0900066	7,14	RDFCR0900066	8,10
9,0	84	GDFCG0900084	9,03	RDFCR0900084	10,16
9,0	125	GDFCG0900125	13,30	RDFCR0900125	15,16
9,5	125	GDFCG0950125	14,76	RDFCR0950125	16,49
9,5	133	GDFCG0950133	15,72	RDFCR0950133	17,58
10,0	66	GDFCG1000066	8,67	RDFCR1000066	9,59
10,0	70	GDFCG1000070	9,11	RDFCR1000070	10,16
10,0	72	GDFCG1000072	9,47	RDFCR1000072	10,56
10,0	75	GDFCG1000075	9,80	RDFCR1000075	10,88
10,0	80	GDFCG1000080	10,44	RDFCR1000080	11,57
10,0	90	GDFCG1000090	11,77	RDFCR1000090	13,02
10,0	110	GDFCG1000110	14,31	RDFCR1000110	15,88
10,0	133	GDFCG1000133	17,05	RDFCR1000133	19,23
10,0	150	GDFCG1000150	19,51	RDFCR1000150	21,65
10,5	90	GDFCG1050090	12,98	RDFCR1050090	14,39
10,5	133	GDFCG1050133	19,23	RDFCR1050133	21,21
10,5	142	GDFCG1050142	20,52	RDFCR1050142	22,62
11,0	142	GDFCG1100142	22,41	RDFCR1100142	24,83
12,0	73	GDFCG1200073	13,75	RDFCR1200073	15,00



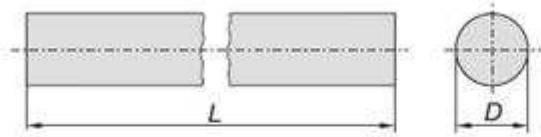


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- ROND [ FIX- lengtes ]
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

D mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
12,0	75	GDFCG1200075	14,11	RDFCR1200075	15,40
12,0	83	GDFCG1200083	15,68	RDFCR1200083	17,05
12,0	102	GDFCG1200102	19,23	RDFCR1200102	20,96
12,0	110	GDFCG1200110	20,72	RDFCR1200110	22,58
12,0	150	GDFCG1200150	28,22	RDFCR1200150	30,80
12,5	151	GDFCG1250151	30,56	RDFCR1250151	33,10
13,0	151	GDFCG1300151	32,74	RDFCR1300151	35,07
14,0	75	GDFCG1400075	19,07	RDFCR1400075	20,60
14,0	82	GDFCG1400082	20,80	RDFCR1400082	22,50
14,0	85	GDFCG1400085	21,57	RDFCR1400085	23,34
14,0	92	GDFCG1400092	23,34	RDFCR1400092	25,24
14,0	110	GDFCG1400110	27,90	RDFCR1400110	30,20
14,0	120	GDFCG1400120	30,44	RDFCR1400120	31,24
14,0	150	GDFCG1400150	38,06	RDFCR1400150	40,31
15,0	92	GDFCG1500092	25,88	RDFCR1500092	28,14
15,0	130	GDFCG1500130	36,57	RDFCR1500130	39,75
16,0	82	GDFCG1600082	26,20	RDFCR1600082	28,70
16,0	92	GDFCG1600092	29,43	RDFCR1600092	31,53
16,0	110	GDFCG1600110	35,19	RDFCR1600110	37,69
16,0	120	GDFCG1600120	38,42	RDFCR1600120	41,12
16,0	130	GDFCG1600130	41,60	RDFCR1600130	44,55
16,0	140	GDFCG1600140	44,75	RDFCR1600140	47,93
16,0	150	GDFCG1600150	47,93	RDFCR1600150	51,40



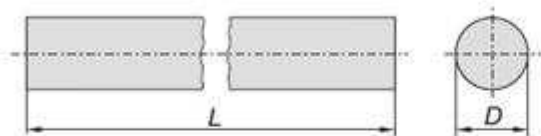




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- ROND [ FIX- lengtes ]
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

D mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
17,0	92	GDFCG1700092	33,10	RDFCR1700092	34,87
18,0	84	GDFCG1800084	33,90	RDFCR1800084	35,03
18,0	92	GDFCG1800092	37,13	RDFCR1800092	38,38
18,0	110	GDFCG1800110	44,43	RDFCR1800110	45,88
18,0	130	GDFCG1800130	52,53	RDFCR1800130	54,22
18,0	150	GDFCG1800150	60,55	RDFCR1800150	62,00
19,0	160	GDFCG1900160	72,24	RDFCR1900160	73,49
20,0	92	GDFCG2000092	44,35	RDFCR2000092	46,33
20,0	104	GDFCG2000104	50,47	RDFCR2000104	52,36
20,0	110	GDFCG2000110	53,37	RDFCR2000110	55,42
20,0	120	GDFCG2000120	58,28	RDFCR2000120	60,41
20,0	130	GDFCG2000130	63,08	RDFCR2000130	65,41
20,0	150	GDFCG2000150	72,80	RDFCR2000150	75,47
20,0	165	GDFCG2000165	79,42	RDFCR2000165	83,05
22,0	110	GDFCG2200110	65,02	RDFCR2200110	68,89
22,0	130	GDFCG2200130	76,82	RDFCR2200130	81,39
22,0	150	GDFCG2200150	88,63	RDFCR2200150	93,93
24,0	110	GDFCG2400110	75,82	RDFCR2400110	79,30
24,0	130	GDFCG2400130	89,59	RDFCR2400130	93,66
25,0	110	GDFCG2500110	82,20	RDFCR2500110	85,10
25,0	130	GDFCG2500130	97,18	RDFCR2500130	100,62
25,0	150	GDFCG2500150	112,08	RDFCR2500150	116,11
26,0	110	GDFCG2600110	88,67	RDFCR2600110	91,80





- HARDMETAAL STANDAARD VORMDEEL
- ROND [ FIX- lengtes ]
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

D mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
26,0	130	GDFCG2600130	104,92	RDFCR2600130	107,20
26,0	150	GDFCG2600150	120,90	RDFCR2600150	125,16
28,0	130	GDFCG2800130	122,14	RDFCR2800130	125,47
30,0	130	GDFCG3000130	134,12	RDFCR3000130	137,35
20,0	150	GDFCG3000150	154,77	RDFCR3000150	158,45
32,0	130	GDFCG3300130	153,21	RDFCR3300130	156,48
32,0	150	GDFCG3300150	176,76	RDFCR3300150	180,60

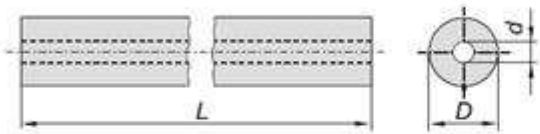




[WWW.HARDMETAAL.NU](http://WWW.HARDMETAAL.NU)

# HARDMETAAL ALS KERNCOMPETENTIE





- HARDMETAAL STANDAARD VORMDEEL
- ROND – CENTRAAL KOELKANAAL
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

D mm	d mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
4,0	0,6	320	GCFCG040320F06	19,38	RCFCR040320F06	21,99
6,0	1,0	320	GCFCG060320F10	27,77	RCFCR060320F10	32,14
8,0	1,3	320	GCFCG080320F13	38,69	RCFCR080320F13	43,50
10,0	2,0	320	GCFCG100320F20	53,37	RCFCR100320F20	57,39
12,0	2,0	320	GCFCG120320F20	71,99	RCFCR120320F20	76,65
14,0	2,0	320	GCFCG140320F20	93,82	RCFCR140320F20	98,40
16,0	3,0	320	GCFCG160320F30	116,82	RCFCR160320F30	119,99
18,0	3,0	320	GCFCG180320F30	144,31	RCFCR180320F30	148,60
20,0	3,0	320	GCFCG200320F30	171,17	RCFCR200320F30	175,25
22,0	3,0	320	GCFCG220320F30	205,95	RCFCR220320F30	210,00
24,0	4,0	320	GCFCG240320F40	241,24	RCFCR240320F40	245,33
25,0	4,0	320	GCFCG250320F40	260,35	RCFCR250320F40	264,40
26,0	4,0	320	GCFCG260320F40	281,04	RCFCR260320F40	285,24
28,0	4,0	320	GCFCG280320F40	322,18	RCFCR280320F40	326,23
30,0	5,0	320	GCFCG300320F50	354,54	RCFCR300320F50	358,84
32,0	5,0	320	GCFCG320320F50	403,40	RCFCR320320F50	407,44
34,0	5,0	320	GCFCG340320F50	455,34	RCFCR340320F50	459,41
35,0	6,0	320	GCFCG350320F60	482,75	RCFCR350320F60	487,05
36,0	6,0	320	GCFCG360320F60	513,16	RCFCR360320F60	517,16

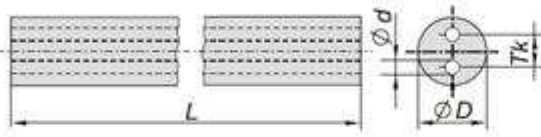




# HARDMETAAL ALS KERNCOMPETENTIE



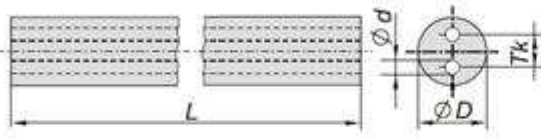




- HARDMETAAL STANDAARD VORMDEEL
- ROND – PARALLEL KOELKANAAL
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

D mm	d mm	TK mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
6,0	0,8	2,0	320	GPFCG060320FS	31,26	RPFCR060320FS	35,56
6,0	1,0	3,0	320	GPFCG060320FL	31,26	RPFCR060320FL	35,56
8,0	1,0	2,6	320	GPFCG080320FS	42,13	RPFCR080320FS	46,87
8,0	1,0	4,0	320	GPFCG080320FL	42,13	RPFCR080320FL	46,87
9,0	1,0	2,6	320	GPFCG090320FS	49,48	RPFCR090320FS	53,86
9,0	1,4	4,0	320	GPFCG090320FL	49,48	RPFCR090320FL	53,86
10,0	1,0	2,6	320	GPFCG100320FS	56,78	RPFCR100320FS	60,84
10,0	1,4	5,0	320	GPFCG100320FL	56,78	RPFCR100320FL	60,84
11,0	1,2	3,5	320	GPFCG110320FS	66,13	RPFCR110320FS	70,42
11,0	1,4	5,0	320	GPFCG110320FL	66,13	RPFCR110320FL	70,42
12,0	1,2	3,5	320	GPFCG120320FS	75,48	RPFCR120320FS	79,94
12,0	1,75	6,0	320	GPFCG120320FL	75,48	RPFCR120320FL	79,94
13,0	1,2	3,5	320	GPFCG130320FS	86,40	RPFCR130320FS	90,89
13,0	1,75	6,0	320	GPFCG130320FL	86,40	RPFCR130320FL	90,89
14,0	1,5	5,0	320	GPFCG140320FS	97,32	RPFCR140320FS	101,77
14,0	1,75	7,0	320	GPFCG140320FL	97,32	RPFCR140320FL	101,77
15,0	1,5	5,0	320	GPFCG150320FS	108,83	RPFCR150320FS	113,21
15,0	2,0	7,0	320	GPFCG150320FL	108,83	RPFCR150320FL	113,21
16,0	1,5	5,0	320	GPFCG160320FS	120,19	RPFCR160320FS	123,48
16,0	2,0	8,0	320	GPFCG160320FL	120,19	RPFCR160320FL	123,48
17,0	2,0	8,0	320	GPFCG170320FL	134,07	RPFCR170320FL	138,33
18,0	2,0	6,2	320	GPFCG180320FS	147,16	RPFCR180320FS	151,37
18,0	2,0	9,0	320	GPFCG180320FL	147,16	RPFCR180320FL	151,37

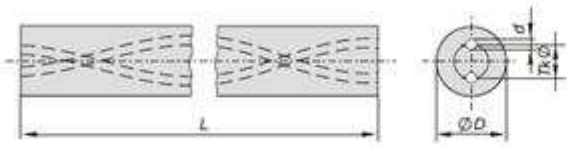




- HARDMETAAL STANDAARD VORMDEEL
- ROND – PARALLEL KOELKANAAL
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

D mm	d mm	TK mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
20,0	2,0	6,2	320	GPFCG200320FS	173,05	RPFCR200320FS	176,98
20,0	2,6	10,0	320	GPFCG200320FL	173,05	RPFCR200320FL	176,98
22,0	2,0	6,2	320	GPFCG220320FS	207,77	RPFCR220320FS	212,08
22,0	2,6	11,0	320	GPFCG220320FL	207,77	RPFCR220320FL	212,08
24,0	2,0	7,5	320	GPFCG240320FS	243,44	RPFCR240320FS	247,64
24,0	3,0	12,0	320	GPFCG240320FL	243,44	RPFCR240320FL	247,64
25,0	2,0	7,5	320	GPFCG250320FS	262,47	RPFCR250320FS	266,71
25,0	3,0	12,0	320	GPFCG250320FL	262,47	RPFCR250320FL	266,71
26,0	2,0	8,5	320	GPFCG260320FS	288,74	RPFCR260320FS	293,41
26,0	3,0	13,0	320	GPFCG260320FL	288,74	RPFCR260320FL	293,41
28,0	2,0	8,5	320	GPFCG280320FS	325,30	RPFCR280320FS	329,43
28,0	3,0	14,0	320	GPFCG280320FL	325,30	RPFCR280320FL	329,43
30,0	3,0	8,5	320	GPFCG300320FS	357,76	RPFCR300320FS	361,99
30,0	3,0	14,0	320	GPFCG300320FL	357,76	RPFCR300320FL	361,99
32,0	3,0	8,5	320	GPFCG320320FS	406,55	RPFCR320320FS	410,59
32,0	3,0	14,0	320	GPFCG320320FL	406,55	RPFCR320320FL	410,59
34,0	3,0	8,5	320	GPFCG340320FS	459,45	RPFCR340320FS	463,97
34,0	3,0	14,0	320	GPFCG340320FL	459,45	RPFCR340320FL	463,97
35,0	3,0	8,5	320	GPFCG350320FS	485,75	RPFCR350320FS	490,27
35,0	3,0	14,0	320	GPFCG350320FL	485,75	RPFCR350320FL	490,27
36,0	3,0	8,5	320	GPFCG360320FS	514,90	RPFCR360320FS	519,64
36,0	3,0	14,0	320	GPFCG360320FL	514,90	RPFCR360320FL	519,64



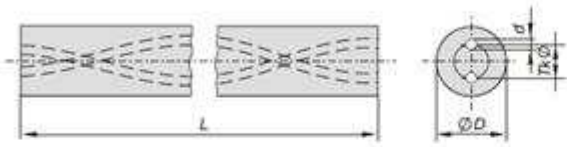


- HARDMETAAL STANDAARD VORMDEEL
- ROND – DUBBEL HELICOIDAAL KOELKANAAL
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

## HELICOIDAAL 30°

D mm	d mm	TK mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
6,0	0,7	2,4	330	FCG0603302FLE30	32,52	FCR0603302FLE30	35,41
8,0	1,0	3,8	330	FCG0803302FLE30	49,51	FCR0803302FLE30	53,57
10,0	1,4	4,5	330	FCG1003302FLE30	63,03	FCR1003302FLE30	67,59
12,0	1,4	5,85	330	FCG1203302FLE30	90,04	FCR1203302FLE30	95,51
14,0	1,9	6,7	330	FCG1403302FLE30	118,57	FCR1403302FLE30	124,76
16,0	1,9	8,0	330	FCG1603302FLE30	146,57	FCR1603302FLE30	153,30
18,0	2,3	9,0	330	FCG1803302FLE30	208,92	FCR1803302FLE30	214,58
20,0	2,3	9,9	330	FCG2003302FLE30	247,31	FCR2003302FLE30	251,22
22,0	2,3	10,0	330	FCG2203302FLE30	286,23	FCR2203302FLE30	296,52
24,0	2,3	12,0	330	FCG2403302FLE30	362,60	FCR2403302FLE30	377,96
26,0	2,3	12,0	330	FCG2603302FLE30	459,98	FCR2603302FLE30	470,78



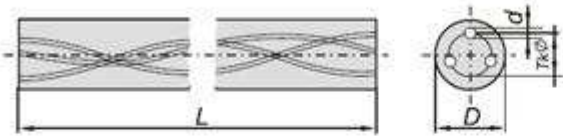


- HARDMETAAL STANDAARD VORMDEEL
- ROND – DUBBEL HELICOIDAAL KOELKANAAL
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

## HELICOIDAAL 40°

D mm	d mm	TK mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
6,0	0,5	2,0	330	FCG0603302FLE40	32,52	CR0603302FLE40	35,41
8,0	0,7	2,4	330	FCG0803302FLE40	49,51	FCR0803302FLE40	53,57
10,0	0,8	3,2	330	FCG1003302FLE40	63,03	FCR1003302FLE40	67,59
12,0	0,9	3,8	330	FCG1203302FLE40	90,04	FCR1203302FLE40	95,51
14,0	1,0	4,3	330	FCG1403302FLE40	118,57	FCR1403302FLE40	124,76
16,0	1,2	5,1	330	FCG1603302FLE40	146,57	FCR1603302FLE40	153,30
18,0	1,4	5,9	330	FCG1803302FLE40	208,92	FCR1803302FLE40	214,58
20,0	1,5	6,6	330	FCG2003302FLE40	247,31	FCR2003302FLE40	251,22
22,0	1,7	7,2	330	FCG2203302FLE40	286,23	FCR2203302FLE40	296,52
24,0	1,8	7,5	330	FCG2403302FLE40	362,60	FCR2403302FLE40	377,96
26,0	1,8	7,7	330	FCG2603302FLE40	459,98	FCR2603302FLE40	470,78





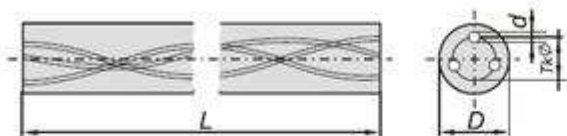
- HARDMETAAL STANDAARD VORMDEEL
- ROND – TRIPLE HELICOIDAAL KOELKANAAL
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

## HELICOIDAAL 30°

D mm	d mm	TK mm	L mm	R UW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
6,0	0,5	2,9	330	3F06233030	29,20	3F06033030	32,26
6,5	0,5	2,9	330	3F06733030	33,14		
7,0	0,7	4,0	330	3F07233030	37,23	3F07033030	42,34
7,7	0,7	4,0	330	3F07733030	41,75		
8,0	0,7	4,0	330	3F08233030	46,72	3F08033030	50,95
8,5	0,7	4,0	330	3F08733030	51,82		
9,0	0,9	5,1	330	3F09233030	57,37	3F09033030	64,09
9,5	0,9	5,1	330	3F09733030	63,21		
10,0	0,9	5,1	330	3F10233030	69,20	3F10033030	74,31
10,5	0,9	5,1	330	3F10733030	75,47		
11,0	1,1	5,7	330	3F11233030	82,04		
11,5	1,1	6,1	330	3F11733030	88,91		
12,0	1,1	6,3	330	3F12233030	95,91	3F12033030	102,19
12,5	1,1	6,3	330	3F12733030	103,36		
13,0	1,2	6,8	330	3F13233030	111,09	3F13033030	121,61
13,5	1,2	7,0	330	3F13733030	118,98		
14,0	1,4	7,3	330	3F14233030	127,15	3F14033030	170,95
14,5	1,4	7,6	330	3F14733030	153,14		
15,0	1,4	7,8	330	3F15233030	144,38		
15,5	1,4	7,8	330	3F15733030	153,43		
16,0	1,6	8,3	330	3F16233030	162,26	3F16033030	250,09
16,5	1,6	8,3	330	3F16733030	172,41		





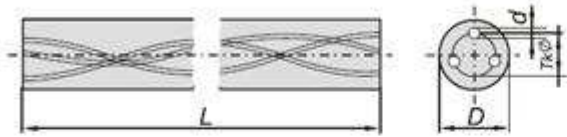


- HARDMETAAL STANDAARD VORMDEEL
- ROND – TRIPLE HELICOIDAAL KOELKANAAL
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

## HELICOIDAAL 30°

D mm	d mm	TK mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
17,0	1,6	8,6	330	3F17233030	182,34		
18,0	1,7	9,5	330	3F18233030	203,07	3F18033030	313,49
19,0	1,7	10,2	330	3F19233030	225,11		
20,0	1,9	10,2	330	3F20233030	243,14	3F20033030	245,29
22,0	2,0	11,5	330	3F22233030	292,29	3F22033030	293,86
23,0	2,0	11,8	330	3F23233030	318,57		
24,0	2,0	12,1	330	3F24233030	346,14		
25,0	2,0	12,5	330	3F25233030	374,71	3F25033030	375,29
26,0	2,0	13,1	330	3F26233030	404,43		
27,0	2,5	13,6	330	3F27233030	435,00		
28,0	2,5	14,1	330	3F28233030	466,29	3F28033030	465,57
30,0	2,5	15,1	330	3F30233030	531,14	3F30033030	529,43
32,0	3,0	16,1	330	3F32233030	598,14	3F32033030	595,14



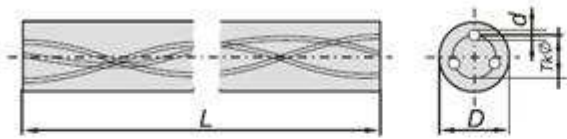


- HARDMETAAL STANDAARD VORMDEEL
- ROND – TRIPLE HELICOIDAAL KOELKANAAL
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

## HELICOIDAAL 40°

D mm	d mm	TK mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
6,0	0,5	2,2	330	3F06233040	29,20	3F06033040	32,26
6,5	0,5	2,3	330	3F06733040	33,14		
7,0	0,7	2,4	330	3F07233040	37,23	3F07033040	42,34
7,5	0,7	2,5	330	3F07733040	41,75		
8,0	0,7	2,7	330	3F08233040	46,72	3F08033040	50,95
8,5	0,7	2,9	330	3F08733040	51,82		
9,0	0,8	3,2	330	3F09233040	58,25	3F09033040	64,09
9,5	0,8	3,5	330	3F09733040	63,21		
10,0	0,8	3,5	330	3F10233040	69,20	3F10033040	74,31
10,5	0,8	3,5	330	3F10733040	75,47		
11,0	0,8	3,7	330	3F11233040	82,04		
11,5	0,9	4,0	330	3F11733040	88,91		
12,0	0,9	4,2	330	3F12233040	95,91	3F12033040	102,19
12,5	0,9	4,3	330	3F12733040	103,36		
13,0	0,9	4,4	330	3F13233040	111,09		
13,5	1,0	4,5	330	3F13733040	118,98		
14,0	1,0	4,7	330	3F14233040	127,15	3F14033040	138,83
14,5	1,1	4,9	330	3F14733040	153,14		
15,0	1,1	5,1	330	3F15233040	144,38		
15,5	1,1	5,3	330	3F15733040	153,43		
16,0	1,2	5,5	330	3F16233040	162,26	3F16033030	170,95
16,5	1,2	5,7	330	3F16733040	172,41		



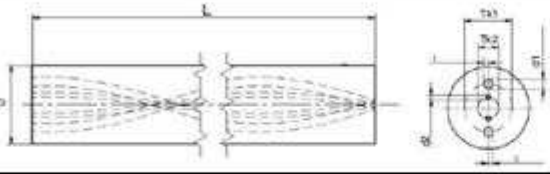


- HARDMETAAL STANDAARD VORMDEEL
- ROND – TRIPLE HELICOIDAAL KOELKANAAL
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

## HELICOIDAAL 40°

D mm	d mm	TK mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
17,5	1,3	6,1	330	3F17733040	208,61		
18,0	1,4	6,3	330	3F18233040	203,07	3F18033040	219,42
19,0	1,4	6,7	330	3F19233040	225,11		
20,0	1,5	7,1	330	3F20233040	243,14	3F20033040	245,29
22,0	1,7	7,7	330	3F22233040	292,29	3F22033040	293,86
24,0	1,5	8,0	330	3F24233040	346,14		
25,0	1,8	8,1	330	3F25233040	535,39	3F25033040	543,86
26,0	1,8	8,2	330	3F26233040	374,71		
27,0	2,0	9,0	330	3F27233040	404,43		
28,0	2,0	9,0	330	3F28233040	466,29		
30,0	2,0	10,0	330	3F30233040	531,14		
32,0	2,0	11,0	330	3F32233040	598,14	3F32033040	607,00





- HARDMETAAL STANDAARD VORMDEEL
- ROND – 2 x 2 HELICOIDAAL KOELKANAAL
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

## HELICOIDAAL 30°

D mm	d mm	TK mm	L mm	RUW GESINTERD	PRIJS / STK €	GESLEPEN h6	PRIJS / STK €
8,0	0,9/0,45	4,50/2,2	330	4F08233030	78,14	4F08033030	82,57
10,0	1,1/0,60	5,70/2,8	330	4F10233030	109,57	4F10033030	114,86
12,0	1,4/0,70	6,90/3,4	330	4F12233030	145,71	4F12033030	152,00
14,0	1,6/0,80	8,10/3,9	330	4F14233030	191,14	4F14033030	198,43
16,0	1,8/0,90	9,00/4,4	330	4F16233030	238,43	4F16033030	246,71
18,0	2,0/1,00	10,20/5,0	330	4F18233030	306,14	4F18033030	315,43
20,0	2,3/1,20	11,40/5,6	330	4F20233030	314,57	4F20033030	324,71
22,0	2,5/1,20	12,60/6,1	330	4F22233030	424,29	4F22033030	435,43
25,0	2,8/1,40	14,10/6,9	330	4F25233030	578,00	4F25033030	590,71

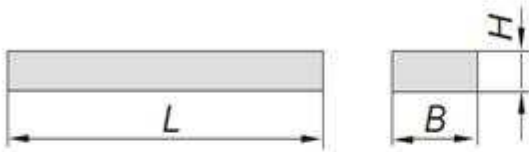
## NIEUW IN PROGRAMMA 2018





# HARDMETAAL ALS KERNCOMPETENTIE



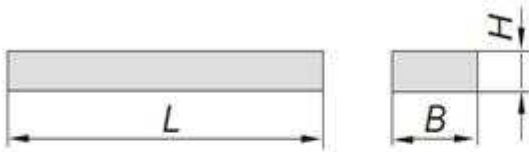


- HARDMETAAL STANDAARD VORMDEEL
- RECHTHOEK
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

B mm	H mm	L mm	RUW GESINTERD	PRIJS / STK €
1,5	3,0	335	FB01.503335	6,52
1,5	4,0	335	FB01.504335	8,47
1,5	6,0	335	FB01.506335	8,72
1,5	8,0	335	FB01.508335	9,99
2,0	2,0	335	FB02.002335	5,42
2,0	4,0	335	FB02.004335	7,70
2,0	5,0	335	FB02.005335	8,30
2,0	6,0	335	FB02.006335	9,35
2,0	7,0	335	FB02.007335	10,58
2,0	8,0	335	FB02.008335	11,85
2,0	9,0	335	FB02.009335	13,33
2,0	10,0	335	FB02.010335	14,11
2,0	12,0	335	FB02.012335	16,81
2,0	14,0	335	FB02.014335	19,67
2,0	16,0	335	FB02.016335	22,09
2,0	18,0	335	FB02.018335	23,58
2,0	20,0	335	FB02.020335	26,33
2,5	6,0	335	FB02.506335	11,01
2,5	8,0	335	FB02.508335	14,65
2,5	10,0	335	FB02.510335	16,81
2,5	12,0	335	FB02.512335	20,44
2,5	14,0	335	FB02.514335	23,95
2,5	16,0	335	FB02.516335	27,29



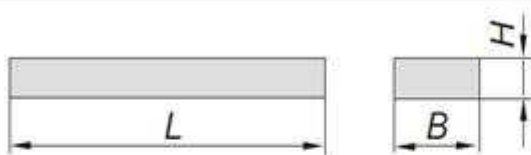




- HARDMETAAL STANDAARD VORMDEEL
- RECHTHOEK
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

B mm	H mm	L mm	RUW GESINTERD	PRIJS / STK €
2,5	18,0	335	FB02.518335	30,60
2,5	20,0	335	FB02.520335	33,86
3,0	3,0	335	FB03.003335	6,86
3,0	4,0	335	FB03.004335	9,19
3,0	5,0	335	FB03.005335	10,50
3,0	6,0	335	FB03.006335	12,66
3,0	7,0	335	FB03.007335	14,82
3,0	8,0	335	FB03.008335	15,92
3,0	10,0	335	FB03.010335	19,92
3,0	12,0	335	FB03.012335	23,62
3,0	13,0	335	FB03.013335	25,72
3,0	14,0	335	FB03.014335	27,78
3,0	15,0	335	FB03.015335	29,11
3,0	16,0	335	FB03.016335	30,80
3,0	18,0	335	FB03.018335	34,71
3,0	20,0	335	FB03.020335	39,63
3,0	22,0	335	FB03.022335	43,54
3,0	25,0	335	FB03.025335	48,86
3,0	30,0	335	FB03.030335	60,91
4,0	4,0	335	FB04.004335	11,01
4,0	5,0	335	FB04.005335	13,67
4,0	6,0	335	FB04.006335	16,17
4,0	8,0	335	FB04.008335	20,56

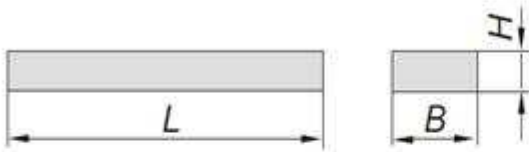




- HARDMETAAL STANDAARD VORMDEEL
- RECHTHOEK
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

B mm	H mm	L mm	RUW GESINTERD	PRIJS / STK €
4,0	10,0	335	FB04.010335	25,88
4,0	12,0	335	FB04.012335	31,04
4,0	13,0	335	FB04.013335	33,54
4,0	14,0	335	FB04.014335	36,12
4,0	16,0	335	FB04.016335	41,20
4,0	18,0	335	FB04.018335	46,28
4,0	20,0	335	FB04.020335	51,40
4,0	22,0	335	FB04.022335	56,84
4,0	25,0	335	FB04.025335	64,78
4,0	30,0	335	FB04.030335	81,02
5,0	5,0	335	FB05.005335	16,13
5,0	7,0	335	FB05.007335	22,50
5,0	8,0	335	FB05.008335	25,76
5,0	10,0	335	FB05.010335	32,37
5,0	12,0	335	FB05.012335	39,10
5,0	14,0	335	FB05.014335	46,76
5,0	16,0	335	FB05.016335	51,88
5,0	18,0	335	FB05.018335	58,01
5,0	20,0	335	FB05.020335	64,91
5,0	25,0	335	FB05.025335	80,79
5,0	30,0	335	FB05.030335	101,34
5,0	32,0	335	FB05.032335	108,11
5,0	35,0	335	FB05.035335	118,27

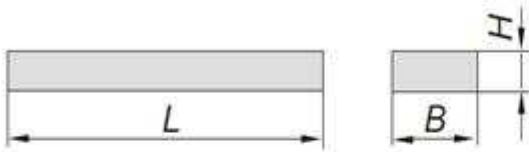




- HARDMETAAL STANDAARD VORMDEEL
- RECHTHOEK
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

B mm	H mm	L mm	RUW GESINTERD	PRIJS / STK €
6,0	8,0	335	FB06.008335	31,04
6,0	10,0	335	FB06.010335	38,86
6,0	12,0	335	FB06.012335	46,76
6,0	14,0	335	FB06.014335	54,55
6,0	16,0	335	FB06.016335	62,12
6,0	18,0	335	FB06.018335	69,86
6,0	20,0	335	FB06.020335	77,12
6,0	25,0	335	FB06.025335	97,00
6,0	30,0	335	FB06.030335	122,25





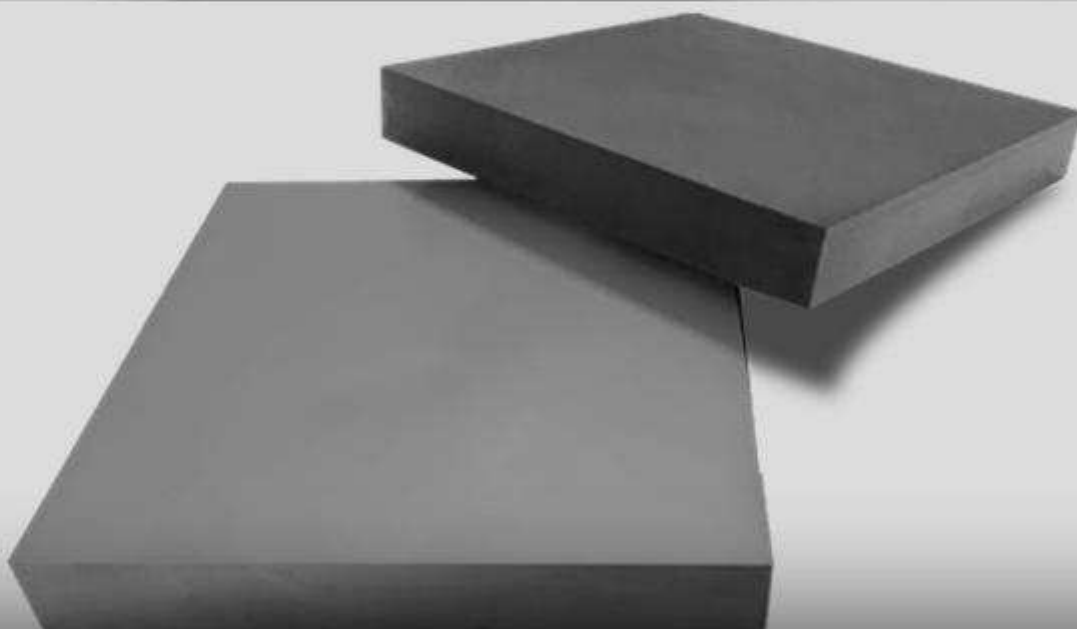
- HARDMETAAL STANDAARD VORMDEEL
- VIERKANT
- KWALITEIT : MICRON [ Micrograin Hardmetaal K10 ]

B mm	H mm	L mm	RUW GESINTERD	PRIJS / STK €
6,0	6,0	335	FB06.006335	23,14
8,0	8,0	335	FB08.008335	41,60
10,0	10,0	335	FB10.010335	64,10
12,0	12,0	335	FB12.012335	93,25
14,0	14,0	335	FB14.014335	125,86
16,0	16,0	335	FB16.016335	166,66
18,0	18,0	335	FB18.018335	223,87
20,0	20,0	335	FB20.020335	272,32





# HARDMETAAL ALS KERNCOMPETENTIE





## PRIJSLIJST HARDMETAAL STANDAARD ERODEERBLOKKEN

2018 - 03

### KWALITEIT HARDMETAAL

HARDMETAAL **MEDIUM** [ Hardmetaal G20 ]

KORRELGROOTTE 1,5 ~ 2,8µm

BINDING 9% Co

HARDHEID 1395 HV<sup>30</sup> | 90,5 HRa

DICHTHEID 14,8 g/cm<sup>3</sup>

TAAIHEID 13,9 N/mm<sup>2</sup> m<sup>1/2</sup>

STRUCTUUR



### TOLERANTIES

RUW GESLEPEN

afm. 0,5 ~ 3,5 = + 0,25 / 0,35mm

afm. 4,0 ~ 6,0 = + 0,25 / 0,40mm

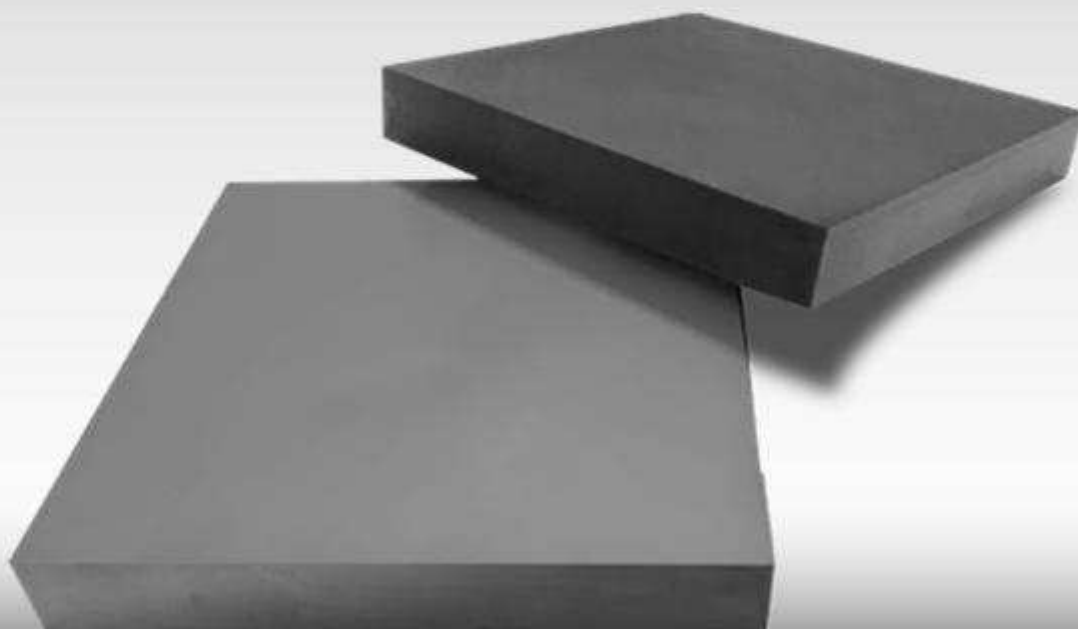
afm. 6,5 ~ 12,5 = + 0,30 / 0,45mm

afm. 12,5 ~ 16,0 = + 0,35 / 0,50mm

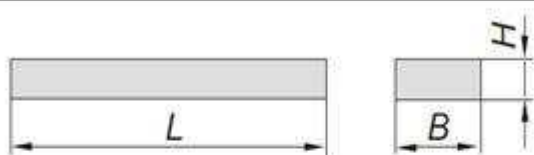
afm. 22,5 ~ 45,0 = + 0,45 / 0,60mm

GESLEPEN

h6



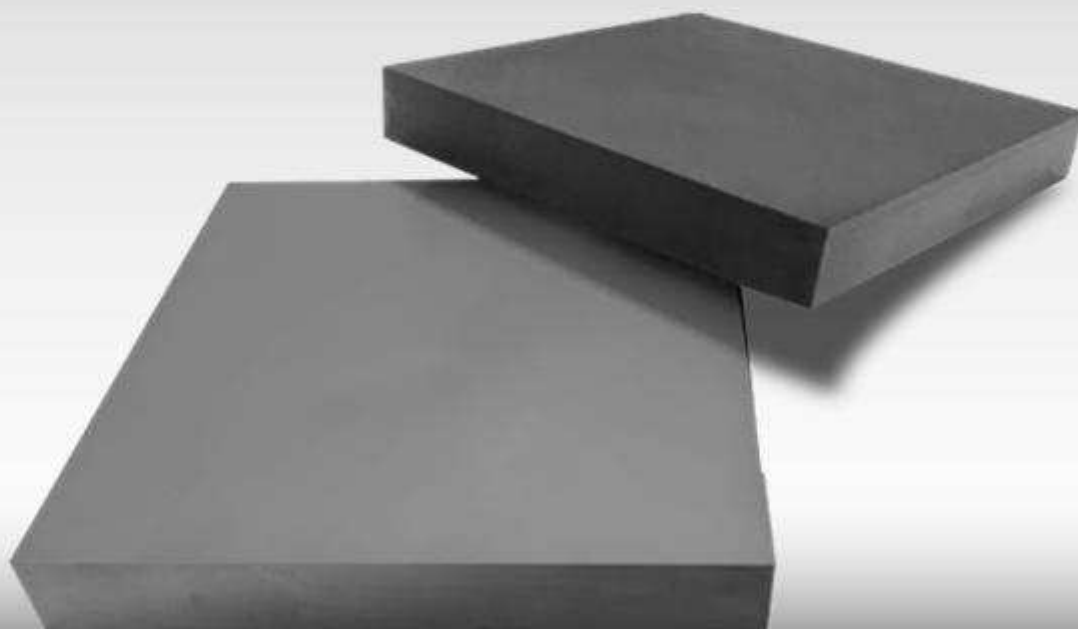




- HARDMETAAL ERODEERBLOK - Corrosiewerend
- RECHTHOEK / VIERKANT
- KWALITEIT : MEDIUM [ Hardmetaal G20 ]

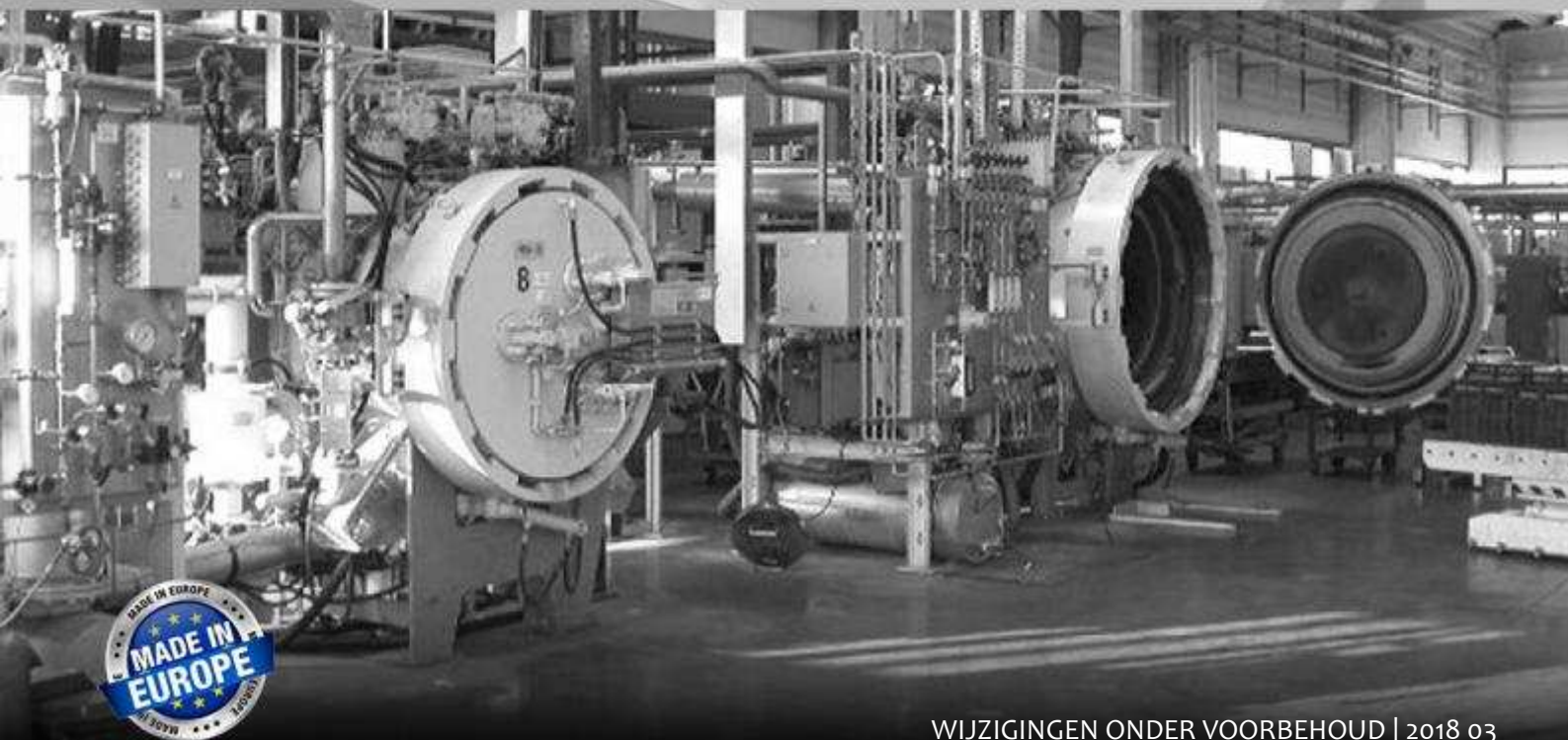
B mm	H mm	L mm	RUW GESINTERD	PRIJS / STK €
2	100	100	HMGZ02100100	89,00
3	100	100	HMGZ03100100	100,00
4	100	100	HMGZ04100100	125,00
10	100	100	HMGZ10100100	415,00
20	100	100	HMGZ20100100	500,00
30	100	100	HMGZ30100100	870,00
40	100	100	HMGZ40100100	1285,00
50	100	100	HMGZ50100100	1575,00

- AFWIJKENDE AFMETINGEN OP AANVRAAG
- STARTGAT- BORING MOGELIJK





# HARDMETAAL ALS KERNCOMPETENTIE





## PRIJSLIJST STANDAARD HARDMETAAL VORMDELEN

2018 - 03

VOORWAARDEN	conform algemene leveringsvoorwaarden Metaalunie
LEVERING	af fabriek
LEVERTIJD	5 werkdagen na schriftelijke bevestiging opdracht tussentijdse verkoop voorbehouden
PRIJZEN	in Euro's, exclusief BTW
BESTELGROOTTE	minimale bestelgrootte € 75, - - excl. BTW
BETALING	30 dagen netto

STAFFELKORTING BIJ GROTE AFNAMES

AFWIJKENDE AFMETINGEN EN/OF SAMENSTELLINGEN OP AANVRAAG

GEGEVENS	WWW.HARDMETAAL.NU INFORMATIE@HARDMETAAL.NU + 31 486 451056
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# WWW.HARDMETAAL.NU

Naast gerenommeerde leverancier van standaard hardmetaal vormdelen zetten wij onze expertise graag in bij productie van hardmetaal vormdelen in diverse kwaliteiten, geschikt voor uiteenlopende applicaties, ruw gesinterd met slijptoezicht of compleet op tolerantie naar klantspecificatie.

[WWW.HARDMETAAL.NU](http://WWW.HARDMETAAL.NU) | [INFORMATIE@HARDMETAAL.NU](mailto:INFORMATIE@HARDMETAAL.NU)

volg ons op 

## HARDMETAAL ALS KERNCOMPETENTIE

