

LEGA	TIPO	COLORE	COMPOSIZIONE % ( x : ≤ 1% )															NORME	USI
			COMPOSITION % ( x : ≤ 1% ) Leigierungsbestandteil % ( x : ≤ 1% )																
ALLOY legierungen	TYPE Typ	COLOUR Farbe	Au	Ag	Pt	Pd	In	Sn	Ga	Cu	Ir	Ru	Zn	Ge	Fe	Ta	Mn	ISO	USES Anwendung
																		EN ISO	

Leghe per sistema metallo - ceramica

Alloys for metal -ceramic system / Aufbrennfähige Legierungen

KP58	IV	B	-	30,0	-	57,6	4,0	6,0	-	-	x	x	2,0	-	-	-	-	22674	B
K10	IV	B	1,0	37,5	-	53,5	-	7,8	-	-	-	x	-	-	-	-	-	22674	B
K20	IV	B	2,0	-	-	79,0	-	-	9,0	10,0	-	-	-	-	-	-	-	22674	B
K35	IV	B	3,5	20,5	-	62,5	1,5	10,0	1,7	-	-	x	-	-	-	-	-	22674	B
K150	IV	B	15,0	20,0	1,0	52,7	6,0	4,0	1,0	-	-	x	-	-	-	-	-	22674	B
K300	IV	B	30,0	-	-	60,0	8,6	-	1,3	-	-	x	-	-	-	-	-	22674	B
K390	IV	B	39,0	19,3	-	36,0	x	5,0	-	-	x	-	-	-	-	-	-	22674	B
K450	IV	B	45,0	5,0	1,0	39,0	8,6	-	1,4	-	-	-	-	-	-	-	-	22674	B
K505	IV	B	50,5	5,5	-	35,5	6,0	x	-	-	-	x	1,85	-	-	-	-	22674	B
H51	IV	B	50,6	17,6	x	26,7	2,5	2,0	-	-	x	x	-	-	-	-	-	22674	B
K520L	IV	B	52,0	16,0	-	27,0	2,5	2,3	-	-	x	-	-	-	-	-	-	22674	B
K520	IV	B	52,0	-	1,0	37,0	8,6	-	1,4	-	-	-	-	-	-	-	-	22674	B
K620	IV	B	62,0	8,0	1,5	25,5	1,5	x	-	-	x	-	-	-	x	x	-	22674	A
K690	IV	GC	69,0	13,0	7,0	7,0	2,5	x	-	-	x	-	-	-	x	x	x	22674	A
K750	IV	GC	75,3	5,5	6,5	9,5	1,5	x	-	-	-	-	x	-	-	x	x	22674	A
K770	IV	B	77,3	1,5	10,0	9,0	x	x	-	-	x	-	-	-	x	-	-	22674	A
K840	III	G	84,1	-	13,4	-	x	-	-	-	x	-	-	-	x	x	x	22674	A
K860	III	G	86,0	-	9,0	3,0	1,3	-	-	-	-	-	-	-	-	x	x	22674	A

Leghe universale per ceramica a basso punto di fusione

Universal alloy for low fusion ceramics / Universallegierungen

KP39	III	B	-	55,3	-	39,0	*	2,0	-	-	-	-	3,0	-	-	-	-	22674	B
KP42	III	GC	2,0	24,2	-	40,0	32,0	-	-	-	*	-	1,5	-	-	-	-	22674	A

Leghe per oro - resina

Casting alloys / K&B Legierungen

F0	III	B	-	65,0	-	25,0	1,0	-	-	7,5	-	-	1,5	-	-	-	-	22674	AE
F10	III	B	1,0	64,0	1,0	24,0	x	-	-	8,2	-	-	1,3	-	-	-	-	22674	B
F100	III	B	10,0	63,5	-	18,5	x	-	-	6,0	-	-	1,5	-	-	-	-	22674	B
F180	III	GP	18,0	60,0	-	7,0	1,0	-	-	12,2	x	-	1,3	-	-	-	-	22674	EF
F200	III	GC	20,0	38,5	-	21,0	17,0	-	-	-	-	-	3,5	-	-	-	-	22674	B
F400	IV	G	40,0	44,0	1,0	6,0	x	-	-	7,2	-	-	1,3	-	-	-	-	22674	B
F470	IV	G	47,0	35,0	1,5	5,5	x	-	-	9,2	-	-	1,3	-	-	-	-	22674	BCD
F510	IV	G	51,0	31,0	0,5	5,0	x	-	-	10,7	-	-	1,3	-	-	-	-	22674	B
F550	IV	G	55,0	27,0	1,0	5,0	x	-	-	10,2	-	-	1,3	-	-	-	-	22674	BCD
F588	IV	G	58,8	22,0	1,6	3,4	x	-	-	12,4	-	-	1,3	-	-	-	-	22674	BCD
F600	IV	G	60,0	22,5	-	5,0	-	-	-	10,8	x	-	1,0	x	-	-	-	22674	B
F630	IV	G	63,0	19,0	1,0	4,0	x	-	-	11,2	-	-	1,3	-	-	-	-	22674	BC
F670	IV	G	67,0	13,0	1,0	4,0	x	-	-	13,2	-	-	1,3	-	-	-	-	22674	BC
F700	IV	G	70,0	11,0	3,0	4,0	x	-	-	10,2	-	-	1,3	-	-	-	-	22674	BC
F710	IV	G	71,0	12,0	2,0	2,0	x	-	-	11,2	-	-	1,3	-	-	-	-	22674	BD

Saldature

Solders / Lote

S14KT	ED	G	59,0	20,0	2,0	-	6,0	-	-	11,35	-	-	1,65	-	-	-	-	9333	G
S16KT	D	G	67,0	9,0	x	x	6,6	-	-	14,35	-	-	1,65	-	-	-	-	9333	G
S18KT	D	G	75,0	6,0	1,0	-	6,0	-	-	10,0	-	-	2,0	-	-	-	-	9333	G
SCKT	ED	GC	80,0	9,0	4,0	4,0	1,0	x	-	-	-	-	1,0	-	*	-	-	9333	G

LEGA	PESO SPEC.	INTERVALLO FUSIONE	TEMPERATURA DI COLATA	DUREZZA HV5		C.E.T.	LIMITE ELASTICO 0,2%Mpa		CARICO DI ROTTURA MPa
ALLOY legierungen	DENSITY Dichte	MELTING RANGE Schmelzintervall	CAST TEMPERATURE Gußtemperatur	HARDNESS Vickershärte		W.A.K.	PROOF STRESS	Dehngrenze	ULT. TENSILE STRENGTH Zugfestigkeit
	g/cm <sup>3</sup>	°C	°C	C*	DC*	25° - 500°C 10-6 K-1	C*		C*

KP58	11,2	1170 - 1270	1400	166	270	14,8	340	630
K10	11,0	1180 - 1260	1400	145	250	14,8	317	457
K20	10,6	1170 - 1240	1400	317	383	13,9	716	740
K35	11,0	1150 - 1280	1400	250	285	14,0	515	685
K150	12,3	1200 - 1280	1400	190	270	14,1	489	660
K300	12,6	1230 - 1310	1400	195	315	13,9	479	621
K390	13,8	1150 - 1280	1400	225	260	14,3	510	690
K450	13,8	1230 - 1280	1400	268	270	13,8	458	546
K505	13,6	1250 - 1310	1400	153	230	13,9	284	434
H51	14,0	1210 - 1270	1400	238	280	14,1	485	550
K520L	14,0	1170 - 1240	1400	145	257	14,5	320	417
K520	14,4	1230 - 1290	1400	230	295	13,6	478	546
K620	15,2	1170 - 1280	1400	195	240	13,8	349	497
K690	15,6	1060 - 1160	1400	186	240	14,0	690	770
K750	16,5	1200 - 1240	1400	210	250	14,2	477	549
K770	18,0	1160 - 1260	1400	185	220	13,8	487	719
K840	18,6	1100 - 1140	1350	103	130	13,8	269	407
K860	18,3	1060 - 1160	1350	110	150	13,8	257	394

KP39	10,6	1060 - 1150	1350	197	216	16,6	478	649
KP42	10,7	925 - 1180	1350	214	-	16,3	285	418

				M*	T*		M*	T*	M*	T*
F0	10,4	960 - 1010	1160	140	167	-	250	312	403	470
F10	10,6	960 - 1030	1180	141	164	-	237	378	424	522
F100	11,1	900 - 980	1130	135	160	-	183	271	345	417
F180	11,4	880 - 960	1110	150	220	-	339	480	485	537
F200	11,7	950 - 1000	1150	135	190	-	186	260	403	478
F400	12,7	900 - 940	1090	152	215	-	241	471	343	609
F470	13,0	950 - 990	1140	160	251	-	391	621	515	693
F510	13,3	900 - 940	1090	160	264	-	340	747	440	853
F550	13,8	900 - 940	1090	185	250	-	327	615	394	827
F588	14,2	910 - 940	1090	156	270	-	390	518	444	742
F600	14,0	870 - 930	1080	158	260	-	274	472	353	560
F630	14,3	900 - 940	1090	153	240	-	291	543	353	753
F670	14,6	940 - 970	1120	153	257	-	315	557	383	703
F700	15,1	970 - 1010	1160	140	240	-	241	580	374	698
F710	15,1	910 - 940	1090	130	230	-	254	419	345	513

T. Scorrimento  
Working Temp.  
°C

S14KT	13,7	690 - 760	820	115	199
S16KT	14,0	730 - 780	850	114	185
S18KT	15,1	760 - 820	870	109	140
SCKT	17,0	950 - 1000	1080	160	256

LEGA	MODULO ELASTICO MPa	ALLUNGAMENTO %	SALDATURA CONSIGLIATA			CROGIUOLO	PRERISCALDO	OSSIDAZIONE
			SUGGESTED SOLDER					
			Primaria	Secondaria	Laser			
ALLOY legierungen	MODULUS OF ELASTICITY E-Modul	ELONGATION % Bruchdehnung%	Pre	Post	Crucible	Tiegel	BURN-OUT TEMP. Vorwarmen	OXIDATION FIRING Oxybrand
	C*	C*					°C	°C/min

KP58	115254	9,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 10 min A
K10	132656	9,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 10 min A
K20	117538	2,0	SCKT	-	*	K	850°C 30/60 min	980°C / 0,5 min A
K35	104641	5,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 5 min A
K150	112866	6,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 5 min A
K300	158025	5,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 5 min A
K390	123454	5,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 2 min A
K450	123994	8,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 2 min A
K505	80778	9,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 2 min A
H51	97845	9,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 2 min A
K520L	91771	4,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 2 min A
K520	127147	5,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 2 min A
K620	106610	9,1	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 2 min A
K690	127158	3,0	-	S14KT	*	K	850°C 30/60 min	980°C / 5 min A
K750	98692	2,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 5 min A
K770	183453	9,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 5 min A
K840	101852	6,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 5 min A
K860	110366	8,0	SCKT	S14KT	*	K	850°C 30/60 min	980°C / 5 min A

KP39	146617	9,0	-	-	*	K	850°C 30/60 min	800°C / 3 min A
KP42	65742	5,0	-	-	-	K	850°C 30/60 min	800°C / 3 min A

	M*	T*	M*	T*					
F0	35497	81593	9,0	6,0	S14KT	*	Gr-K	680°C 40 min	N.A.
F10	50261	90370	9,0	9,0	S14KT	*	Gr-K	680°C 40 min	N.A.
F100	47280	65737	9,0	6,0	S14KT	*	Gr-K	680°C 40 min	N.A.
F180	100916	174791	9,0	3,0	S14KT	*	Gr-K	680°C 40 min	N.A.
F200	64874	95552	5,0	4,0	S14KT-S16KT-S18KT		K	680°C 40 min	N.A.
F400	75362	82200	9,0	5,0	S14KT-S16KT-S18KT	*	Gr-K	680°C 40 min	N.A.
F470	88046	108700	9,0	2,0	S14KT-S16KT-S18KT	*	Gr-K	680°C 40 min	N.A.
F510	69874	96177	9,0	3,0	S14KT-S16KT-S18KT	*	Gr-K	680°C 40 min	N.A.
F550	94209	135090	9,0	5,0	S14KT-S16KT-S18KT	*	Gr-K	680°C 40 min	N.A.
F588	53922	112258	9,0	4,0	S14KT-S16KT-S18KT	*	Gr-K	680°C 40 min	N.A.
F600	53337	77532	7,0	2,0	S14KT-S16KT-S18KT	*	Gr-K	680°C 40 min	N.A.
F630	66847	89226	8,0	6,0	S14KT-S16KT-S18KT	*	Gr-K	680°C 40 min	N.A.
F670	62713	108413	9,0	4,0	S14KT-S16KT-S18KT	*	Gr-K	680°C 40 min	N.A.
F700	73462	116891	9,0	6,0	S14KT-S16KT-S18KT	*	Gr-K	680°C 40 min	N.A.
F710	71936	102114	9,0	7,0	S14KT-S16KT-S18KT	*	Gr-K	680°C 40 min	N.A.

LEGA	TEMPERA	STEMPERA
ALLOY legierungen	HARDENING Aushärtung	SOFTENING Weichglühen
	°C/min	°C/min

KP58	N.A.	N.A.
K10	N.A.	N.A.
K20	N.A.	N.A.
K35	N.A.	N.A.
K150	N.A.	N.A.
K300	N.A.	N.A.
K390	N.A.	N.A.
K450	N.A.	N.A.
K505	N.A.	N.A.
H51	N.A.	N.A.
K520L	N.A.	N.A.
K520	N.A.	N.A.
K620	N.A.	N.A.
K690	N.A.	N.A.
K750	N.A.	N.A.
K770	N.A.	N.A.
K840	N.A.	N.A.
K860	N.A.	N.A.

KP39	N.A.	N.A.
KP42	N.A.	N.A.

F0	400°C / 20 min air	680°C / 10 min H2O
F10	400°C / 20 min air	680°C / 10 min H2O
F100	400°C / 20 min air	680°C / 10 min H2O
F180	400°C / 20 min air	680°C / 10 min H2O
F200	400°C / 20 min air	680°C / 10 min H2O
F400	400°C / 20 min air	680°C / 10 min H2O
F470	400°C / 20 min air	680°C / 10 min H2O
F510	400°C / 20 min air	680°C / 10 min H2O
F550	400°C / 20 min air	680°C / 10 min H2O
F588	400°C / 20 min air	680°C / 10 min H2O
F600	400°C / 20 min air	680°C / 10 min H2O
F630	400°C / 20 min air	680°C / 10 min H2O
F670	400°C / 20 min air	680°C / 10 min H2O
F700	400°C / 20 min air	680°C / 10 min H2O
F710	400°C / 20 min air	680°C / 10 min H2O

## LEGENDA

III as per UNI EN ISO 22674  
 IV as per UNI EN ISO 22674  
 D Duro / Hard / Hart  
 ED Extra Duro / Extra Hard / Extra Hart  
 B Bianco / White / Weiss  
 GP Giallo Paglierino / Pale Yellow / Blassgelb  
 GC Giallo Chiaro / Light Yellow / Hellgelb  
 G Giallo / Yellow / Gelb  
 C\* a 950 °C per 10 min. in aria / at 950 °C for 10 min. in atmosphere  
 DC\* dopo cottura della ceramica / after firing / nach dem brand  
 M\* stemperato / softened / weichgeglüht  
 T\* temperato / hardened / vergütet  
 K crogiuolo in ceramica / ceramic crucible / keramik  
 Gr crogiuolo in grafite / graphite crucible / graphit

usi / uses / indikation

A corone e ponti mediamente sollecitati / crowns and bridges moderately stressed /  
 Brücken kleine spannweiten  
 B corone e ponti fortemente sollecitati / crowns and bridges strongly stressed /  
 Brücken grosse spannweiten  
 C scheletrati / removable partials / Modellgußtechnik  
 D intarsi / inlays - onlays / inlays - onlays - ¾ Kronen  
 E perni monconi / stumps  
 F provvisori / provisionals  
 G saldature / solders / lote

\* disponibile / available

Leghe per ceramica e oro-resina fornite in blocchetti  
 metal-ceramic and casting alloys supplied in small ingots

Saldature fornite in bacchette o rotolini  
 Solders supplied in bars or wires  
 Lote in Rolle / Stablot

Leghe e saldature esenti da : Ni, Cd, Be, Cr, Co  
 Alloys and solders without Ni, Cd, Be, Cr, Co  
 Legierungen / Lote sind freie von : Ni, Cd, Be, Cr, Co

INCOMET s.r.l.

Via Abruzzi, 10 – 20090 OPERA ( MI ) – Italy

Tel+39 02 57600184

Fax+39 02 39192032

Web site : [www.incomet.it](http://www.incomet.it)

e-mail : [info@incomet.it](mailto:info@incomet.it)

CE 0546

