

Alloy chart

Color	Alloys	Cat. No.	Type (ISO 22674)	Pd-free	Cu-free	Indication						Composition %										Physical properties				Mechanical properties																Solders		Laser welding wire									
						a	b	c	d	e	f	Au + Pt group metals	Au	Pt	Pd	Ag	Cu	Sn	Zn	In	Ir	Others	CTE 10 ⁻⁴ K ⁻¹		Density	Melting range	Young's Modulus	Hardness HV5				Proof stress Rp 0.2% MPa				Tensile strength (Rm) MPa				Elongation A5 %					Pre-Solder	Post Solder							
Universal alloys																																																					
	BioEthic	***	010923	4	◇	◇	■	■	■	■	■	■	■	■	■	■	■	97.87	86.70	10.75		0.03		0.10	1.50	0.20	0.02	Ta 0.30, Rh 0.40	14.5	14.8	19.0	1025–1145	90	185	220	95	210	435	525	180	575	550	655	350	660	5	6	29	5	S.G 1030	S.G 810	S.G 750	LW N° 1
	DGVO8 H	***	010922	4		◆	■	■	■	■	■	■	■	■	■	■	80.50	73.10	1.50	5.80	16.00		0.50	2.80	0.20	0.10		16.0	16.4	15.8	960–1065	105	230	240	180	265	620	675	335	720	695	745	475	795	4	5	21	5	S.G 880	S.G 700		LW N° 4	
	Esteticor® Ecologic	*	010994	4		◆	■	■	■	■	■	■	■	■	■	■	49.00	32.00	2.00	15.00	42.00					9.00		17.0	17.5	12.7	990–1065	95	190	220	180	220	435	515	360	535	625	685	580	690	7	8	12	6	S.G 920	S.G 700		LW N° 4	
Casting alloys																																																					
	Opticast	***	010869	2	✓		■										83.30	83.20			8.00	8.50		0.20		0.10			16.4	915–935	90	115		115		215		245		395		355		41		56		S.G 810	S.G 750	LW N° 5			
	Aurofluid 2 PF	***	01050010	2	✓		■	■	■								79.06	78.05	0.99		11.50	8.50		0.94		0.02			15.9	895–960	90	140		125	135	280		245	320	425			48		40	30	S.G 810	S.G 750	LW N° 5				
	Pontor MPF	***	01050021	4	✓		■	■	■		■	■	■				75.62	72.00	3.60		13.70	9.78		0.90		0.02			15.5	895–940	90	240		150	220	545		320	490	685		465	580	17		38	19	S.G 810	S.G 750	LW N° 5			
	Neocast 3	***	010646	4	✓		■	■	■		■	■	■				75.40	71.60	3.75		12.70	10.80		1.10		0.05			15.5	890–935	90	245		180	240	610		405	635	725		535	750	17		33	14	S.G 810	S.G 750	LW N° 5			
	Protor 3	***	010654	4			■	■	■		■	■	■				75.35	68.60	2.45	3.95	11.85	10.60		2.50		0.05			15.0	895–960	135	270		175	275	685		410	680	850		535	780	13		35	12	S.G 810	S.G 750	LW N° 5			
	Pontor 2	**	01050022	4			■	■	■		■	■	■				66.50	63.00	0.50	3.00	20.00	12.00		1.50			Ru < 1.00		14.2	870–920	115	265		160	260	730		365	690	810		475	740	9		42	15	S.G 810	S.G 750	LW N° 6			
	Dentalor 60	**	010636	4			■	■	■		■	■	■				63.50	60.00	0.45	3.00	22.50	12.50		1.50		0.05			13.8	860–900	95	265		170	250	830		475	845	895		580	890	12		48	10	S.G 810	S.G 750	LW N° 6			
	Solaro 3	**	01050007	4			■	■	■		■	■	■				61.50	56.00	0.40	5.00	25.00	11.80		1.70		0.10			13.7	875–935	110	295		175	260	885		350	600	980			5		30	10	S.G 810	S.G 750	LW N° 6				
	Medior 3	**	010641	4			■	■	■		■	■	■				61.00	55.00		5.95	26.00	10.90		2.10			Ru 0.05		13.4	870–925	105	295		170	280	865		435	815	930		560	905	4		35	5	S.G 810	S.G 750	LW N° 6			
	Solaro 4	**	01000114	4			■	■	■		■	■	■				49.50	45.00		4.48	41.00	9.50					Ru 0.02		12.9	885–945	85	170		120	215	435		245	610	595		415	755	19		38	12	S.G 810	S.G 750	LW N° 6			
	Yellow Special	**	01050026	4			■	■	■		■	■	■				43.20	41.00	0.45	1.70	44.90	11.00	0.20	0.70			Ru 0.05		12.5	825–900	90	160		130	260	400		275	440	515		450	670	20		31	13	S.G 750	S.G 700	LW N° 6			
	Strator 3	*	010675	3		✓		●	●	●	●	●	●				40.00	20.00		19.95	40.00			4.00	16.00		Ru 0.05		11.4	855–900	75	175		125	165	315		230	305	535		465	530	5		7	5	S.G 810	S.G 750				
	Pagalinor® 2	*	01050024	4			■	■	■		■	■	■				31.41	12.50		18.90	53.65	14.29		0.65			Ru 0.01		11.1	900–980	110	185		135	240	430		300	340	550			22		25	12	S.G 810	S.G 750	LW N° 6				
	Pallorag® 33	*	010651	4			■	■	■		■	■	■				30.00	10.00		20.00	59.50	9.50		1.00					10.9	935–1020	95	170		135	230	430		280	615	575		505	810	15		24	9	S.G 810	S.G 750	LW N° 7			
	Pagalin® 2	*	01050012	4			■	■	■		■	■	■				26.05	3.00		23.00	65.00	6.45		0.50	2.00	0.05			10.8	975–1070	95	175		135	230	390		250	400	580			22		20	7	S.G 880	S.G 750	LW N° 7				

Color	Indication
Yellow	a: Inlays, onlays, crowns ¾
Bright Yellow	b: Single crowns
Pale yellow	c: Short-span bridgework
White	d: Long-span bridgework
	e: Milled work
	f: Clasps, lingual bars, palatinal plates
◆	= For veneering with high expansion ceramic compounds only
◇	= For veneering with medium expansion ceramic compounds

Gold content	Shapes
***	= High gold content
**	= Reduced gold content
*	= Ag based
■	= Casting ingots
●	= Casting granules

Alloy chart

Solders (Composition)

Color	Description	Cat. No.	Indications		Melting range °C	Composition in weight %								
			A	B		Au + Pt group metals	Au	Pt	Pd	Ag	Cu	Zn	Ir	Others
	S.G 700	010875	A	B	650–710	72.90	72.40	0.45		10.20	2.90	12.00	0.05	In 2.00
	S.G 750	010895	A	B	700–750	76.10	75.10	1.00		11.75		12.15		
	S.G 810	010916	A	B	740–810	76.10	75.10	1.00		14.50		9.40		
	S.G 880	010878	A		840–880	78.90	75.90	2.90		10.20	5.90	5.00	0.10	
	S.G 920	010974	A		880–920	89.10	88.10	0.90		3.00	5.10	2.80	0.10	
	S.G 975	011003	A		935–975	93.75	93.50	0.20		0.50	4.45	1.20	0.05	Fe 0.10
	S.G 1030	010822	A		990–1040	85.50	85.00	0.45		13.50		1.00	0.05	
	S.G 1055	010888	A		1020–1070	82.40	80.00	2.40		16.90		0.70		
	S.G 1080	010819	A		1060–1080	83.00	80.00	3.00		17.00				
	S.G 1120	01050030	A		1040–1120	80.10	75.10		5.00	18.90				Sn 1.00
	S.G 1155	010826	A		1060–1155	78.00	64.50	5.00	8.50	20.00		2.00		
	S.W 1100	010918	A		1010–1100	80.50	72.50		7.90	14.50	4.00		0.10	In 1.00
	S.W 1125	01050031	A		1010–1130	95.50	85.00		10.50			4.50		

Color Indication

	Yellow	A = Flame soldering
	Bright Yellow	B = Soldering in the ceramic furnace
	Pale yellow	
	White	

Wires for laser welding

Description	Cat. No.	Melting range °C	Composition in weight %										
			Au + Pt group metals	Au	Pt	Pd	Ag	Cu	Zn	In	Ir	Others	
LW N° 1	01050039	1045–1205	98.00	84.50	13.30					1.90		0.10	Rh 0.10, Fe 0.10
LW N° 2	01050043	1120–1250	94.00	75.10		18.85	1.00	0.50	0.50	2.00	0.05	Sn 2.00,	
LW N° 3	01050040	1165–1290	96.90	76.80	1.35	18.60			0.20		0.15	Sn 2.90,	
LW N° 4	01050042	975–1090	83.50	75.10	8.30		13.80		2.30	0.20	0.10	Ta 0.10, Mn 0.10	
LW N° 5	01050041	890–935	75.40	71.60	3.75		12.70	10.80	1.10		0.05		
LW N° 6	01050038	870–920	66.50	63.00	0.50	3.00	20.00	12.00	1.50			Ru <1.00	
LW N° 7	01050044	915–1005	79.90	69.90	9.50		13.30	2.90	1.90	2.00	0.10	Rh 0.40	