

Material List

Fixed Products

February 1, 2010



2210 Guilderland Avenue
Schenectady, NY 12306


518•344•5372
888•YOUR•LAB

Product Type	Material	Manufacturer	EU Compliance	Lot No.	Country
Porcelain Fused to Metal					
Non-Precious Non-Precious (nickel free) Semi-Precious Porcelain to Precious Porcelain to Gold Captex	Superbond	American Dent-All	CE 0473	S1B845	USA
	Remanium 2001	Dentaurum	CE 0483	372	Germany
	Argelite 63+4	Argen	CE 086	3786172	USA
	Argedent Euro	Argen	CE 0198	3706683	USA
	Argedent 75	Argen	CE 0198	3682804	USA
	Captex Nano Universal	Precious Chemicals Ltd.	CE 0473	59	USA
Precious Metal Crown					
Full Gold Crown ~ 74.5% Full Gold Crown ~ 58% Full Gold Crown ~ 40% Full Gold Crown ~ 2%	Argenco 75	Argen	CE 0198	3734628	USA
	Argenco 58	Argen	CE 0198	3759546	USA
	Argenco 40	Argen	CE 0198	3591394	USA
	Argenco Y+	Argen	CE 0086	3465549	USA
All-Ceramic Restorations					
Crown, Veneer, Inlay, Onlay Crown, Veneer, Inlay, Onlay Anterior/Pre-molar bridges	IPS Empress Esthetic (ingots)	Ivoclar Vivident	CE 0123	H08938	Liechtenstein
	IPSe.max Press (ingots)	Ivoclar Vivident	CE 0123	M31974	Liechtenstein
	IPS e.max Press (ingots)	Ivoclar Vivident	CE 0123	M31974	Liechtenstein
Zirconia	Cercon	Dentsply	CE 0124	44853	USA
	Zeno	Wieland	CE 0483	1304	Germany
	Katana	Noritake	CE 0120	201203	Japan
	PLS Zirconia	Klema	CE 0483	0047-4	Austria
	Procera	Nobel Biocare	Supplied by Nobel Biocare		Switzerland
Ceramic Powder					
For Porcelain Fused to Metal Zeno/Procera/Cercon Zirconia Katana (by Noritake) IPS Empress Esthetic (ingots) IPS e.max Press (ingots)	IPS d.SIGN	Ivoclar Vivadent	CE 0123	L56626	Liechtenstein
	Ceramco 3	Dentsply	CE 0086	9001003	USA
	Creation	GC	CE 0483	8843	Austria
	IPS e.max Ceram	Ivoclar Vivadent	CE 0123	M03256	Liechtenstein
	CZR	Noritake	CE 0120	14982	Japan
	IPS Empress Esthetic	Ivoclar Vivadent	CE 0123	L52801	Liechtenstein
IPS e.max Ceram	Ivoclar Vivadent	CE 0123	M31616	Liechtenstein	
Composite					
Crown, Inlay, Onlay, Facing	FRADIA	GC	CE 0086	904221	Japan
Attachments					
Locks	VKS	Bredent	CE 0483	32010177	Germany
	ERA	Sterngold	CE 0197	Y9793	USA

Product Type	Material	Manufacturer	EU Compliance	Lot No.	Country
Non-Metal Partial					
Flexible Acrylic	Valplast <i>(Lt. pink, stnd. Pink and Meharry)</i>	Valplast	CE 0510	91123	USA
	Flexite <i>(clear, lt. pink, dk. Pink, ethnic BR, ethnic PPL, luc-pink, flex pink)</i>	Flexite	FDA Type II CL	D14A	USA
	Lucitone FRS <i>(orig. pink, clear, lt. red pink, lt. pink)</i>	Dentsply	CE 0086	080806A	USA
	Thermo Flex <i>(tooth shade A-1, A-2...)</i>	Dentsply Austenal	CE 0086	D409104	USA
	Conventional Acrylic	Rapid Simplified <i>(hot cure used for partial) (#10 translucent pink veined)</i>	Vertex	CE 0197	YH261PO1
Catapress <i>(cold cure used for denture) (#10 translucent pink veined)</i>		Vertex	CE 0197	YH263PO3	Netherland
High Impact Acrylic		Lucitone 199 <i>(hot cure for partial & denture) Std. pink and stnd. Meharry)</i>	Dentsply	CE 0088	90714
	Resin Teeth	Cosmo HXL Teeth	Dentsply	CE 0088	20091029C
Thermoguard Thermoguard (Hard) Thermoguard (Soft) Bleach Tray	Erkoloc-pro (3.0mm) Soft inside & Hard outside) QC-20 Soft EVA (3.0 mm) Soft EVA (3.0 mm)	Erkodent Dentsply Keystone Industries Keystone Industries	91/155/EEC CE 0088 93/42/EEC 93/42/EEC	10561 200990417C FEB052009 9020888	Germany China USA USA
Partial Frame					
CoCr Vitallium 2000	Remanium GM800+ Vitallium 2000 Alloy	Dentaurum Dentsply Austenal	CE 0483 CE 0086	569 2246	Germany USA
Attachments					
Locks Locks Locks	VKS-OC VKS-SG VKS SOFT 3	Bredent Bredent Bredent	CE 0483 CE 0483 CE 0483	32010177 32010177 32010177	USA USA USA

Partial Denture Alloys

Technical Data	Remanium GM800+ CoCrMo Alloy	Vitallium 2000 CoCrMo Alloy
	Limit of Expansion $R_{p0.2}$ (MPa)	720
Tensile Strength R_m (Mpa)	960	855
Modulus of Elasticity E (GPa)	230	200
Hardness (HV ₁₀)	370	428
Fracture Elongation A ₅ (%)	6.0	4.5
Solidus T _s (°C/°F)	1240/2264	1300/2375
Liquidus T _l (°C/°F)	1410/2570	1370/2500
Density g/cm ²	8.2	8.3
Composition in %	Co 63.3	Co 60.6
	Cr 30.0	Cr 31.5
	Mo 5.0	Mo 6.6
	Si 1.0	Si < 1.0
	N, Mn, C < 1.0	N, Mn, C < 1.0



Liberty Dental Lab, Inc.

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Alloy Property Chart

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Alloy Property for Porcelain Fused to Metal

	Argedent 75 High Gold High Noble Alloy	Argedent 75 High Gold High Noble Alloy	Argedent 75 High Gold High Noble Alloy	Argedent 75 High Gold High Noble Alloy	Argedent 75 High Gold High Noble Alloy	
Technical Data	Color	Yellow	White	White	White	
	Density (g/cm ³)	16.2	12.8	10.8	8.6	
	Range (°F/°C)	2145 – 2200 (°F)	2050 – 2300 (°F)	2102 – 2318 (°F)	1325 – 1415 (°C)	1301 – 1362 (°C)
	CTE 25°C - 500°C	14.4	14.1	13.9	14.2	14.7
	CTE 20°C - 600°C	14.7	14.4	14.2	-	-
	Elongation (%)	8.0	9	15.0	5.5	3.0
	Vickers hardness	240	290	290	336	200
	0.2% proof stress (MPa)	-	-	-	660	316
	Composition in %		Au 75.1	Au 40.0	Au 4.0	Co 63.0
		Pd 12.0	Pd 39.4	Pd 62.7	Cr 23.0	Cr 25.0
		Ag 10.0	Ag 10.0	Ag 20.0	Mo 7.3	Mo 10.5
		In 1.8	In 8.8	Sn 10.0	W 4.3	Si 1.5
		Sn 1.0	Ga 1.4	In 1.5	Si 1.6	Ti < 1.0
		Ir < 1.0	Sn < 1.0	Ga 1.7	Mn < 1.0	Fe < 1.0
		-	Ru < 1.0	Ir < 1.0	-	Co < 1.0
				Ru < 1.0		Al < 1.0
				Li < 1.0		

Alloy Property for Full Cast Crown

	Argenco 75 High Noble	Argenco 58 High Noble	Argenco 40 Noble	Argenco 75 Noble	
Technical Data	Type	3	3	3	
	Color	Yellow	Yellow	Yellow	
	Density (g/cm ³)	15.5	13.9	12.4	10.5
	Melting range(°F)	1710 – 1760	1681 – 1770	1571 – 1697	1904 – 2048
	Elongation (%)	19.0	10.0	30	5.0 – 6.0
	Vickers hardness	182	210	125	180
	0.2% proof stress (MPa)	-	-	-	-
Composition in %	Au	74.5	58.0	40.0	2.0
	Pd	35	3.25	4.95	34.9
	Ag	11.0	27.0	45.7	30.0
	Cu	10.5	10.5	8.3	0.0
	Zn	< 1.0	1.0	1.0	3.0
	In	-	<1.0	-	30.0
	Ir	< 1.0	< 1.0	< 1.0	< 1.0
B	-	-	-	< 1.0	