

SIAMITE®

LAB GROWN GEMSTONE REFLECTIONS

RHYMING COLORS

for
your

JEWELRY
DESIGN



CONTENTS

COLOR GROUP	No	SIAMITE GEMSTONE REFLECTIONS	ID	REFERENCE	PRICE	PAGE
	1	TOPAZ WHITE	1000-1001	100, 101	C	6
	2	TOPAZ OFF-WHITE BLUE	1002-1005	100/1, 2, 3	C	6
	3	TOPAZ VERY LIGHT GREEN	1006-1007 1127-1129 / 1147		B	6
	4	TOPAZ OFF-WHITE YELLOW	1008-1009	177	C	6
	5	TOPAZ CANARY YELLOW	1010-1018	102	C	6
	6	CITRINE	1019-1025	171	C	6
	7	BERYL YELLOW	1026-1030	501	C	7
	8	QUARTZ GREENISH YELLOW	1031-1035	503	B	7
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	10	HELIODOR KHAKI YELLOW	1041-1044		C	7
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	12	PERIDOT	1050-1059	151	C	7
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	15	PRASEOLITE (GREEN AMETHYST)	1076-1079 / 5476-5479		C	8
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	17	EMERALD SLIGHTLY YELLOWISH GREEN	1100-1106	111	A	9
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	21	EMERALD STRONG BLUISH GREEN (COLOMBIAN COLOR)	5310-5320	NEW	A	9
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	23	TOURMALINE BLUE GREEN	1150-1159	131	B	10
	24	TOURMALINE SLIGHTLY BLUISH MINT GREEN	1130-1139		B	10
	25	TOURMALINE MINT GREEN	1160-1164	119, 120	B	10
	26	PARAIBA SLIGHTLY BLUISH GREEN	1165-1169B		B	11
	27	PARAIBA BLUISH GREEN	1170-1174	110	B	11
	28	PARAIBA BLUE GREEN	1175-1179		B	11
	29	PARAIBA GREEN BLUE	1180-1183	150	B	11
	30	PARAIBA GREENISH BLUE	1184-1189		B	11
	31	AQUA GREEN	1190-1194	149	B	11
	32	AQUA BLUE	1195-1199	148	B	12
	33	TOPAZ ROYAL GREEN BLUE	1200-1204		B	12
	34	TOPAZ ROYAL GREENISH BLUE	1205-1209	147	B	12
	35	TOPAZ SLIGHTLY GREENISH BLUE	1225-1229	141	B	12
	36	APATITE NEON BLUE	5280-5285	NEW	B	12
	37	TOPAZ (CLASSIC) VERY SLIGHTLY GREENISH BLUE	1210-1216	146	B	12
	38	TOPAZ SWISS AND SKY BLUE	1220-1224	142	B	13
	39	TOPAZ GREENISH BLUE	1086-1099		B	13
	40	TOPAZ DEEP SEA BLUE	1230-1234	139/1 - 139/5	B	13

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	43	INDICOLITE GREENISH BLUE	1235-1240	135	B	14
	44	INDICOLITE BLUE	5325-5329	NEW	B	14
	45	SPINEL ROYAL BLUE (SANTORINI BLUE)	1241-1249	104	B	14
	46	SPINEL SLIGHTLY GREENISH BLUE	5340-5347	NEW	B	15
	47	SPINEL BLUE	1250-1254	130	B	15
	48	SPINEL GRAY BLUE (AURORA BLUE)	1260-1269A	199	B	15
	49	SPINEL BLUE GRAY (NIGHT BLUE)	1280-1289	191	B	15
	50	TOPAZ ASH (CADET) GRAY	5275-5279	NEW	B	16
	51	SPINEL GRAY	1270-1279	NEW	B	16
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	53	SPINEL GRAY GREEN (GREEN SAPPHIRE)	1665-1669		B	16
	54	SAPPHIRE GRAY BLUE	1290-1299	121	A	17
	55	SAPPHIRE GRAYISH BLUE	1300-1309	122	A	17
	56	SAPPHIRE SLIGHTLY GRAYISH BLUE	1310-1319	125	A	17
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	58	SAPPHIRE VIVID VIOLETISH BLUE	1330-1334		A	18
	59	SAPPHIRE VIVID SLIGHTLY VIOLETISH BLUE	1335-1339	123	A	18
	60	SAPPHIRE VIVID VIOLET BLUE	1340-1345	124	A	18
	61	SPINEL LAVENDER	1346-1349		A	18
	62	SAPPHIRE CORNFLOWER BLUE	1355-1359		A	19
	63	SAPPHIRE BLUE	5300-5309	NEW	A	19
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	65	SAPPHIRE LIGHT BLUE	1350-1354	NEW	A	19
	66	TANZANITE	5364-5369	NEW	B	19
	67	TANZANITE & AMETHYST LAVENDER - LILAC	5370-5379	NEW	B	20
	68	KUNZITE - PINK TOURMALINE	5380-5385	NEW	B	20
	69	SAPPHIRE LAVENDER BLUE	1360-1366	127	B	20
	70	AMETHYST LAVENDER LILAC	1369-1375	170	B	20
	71	KUNZITE - PINK TOURMALINE VIVID	1376-1379/1	NEW	AA+	21
	72	KUNZITE	1380-1386 B	179	B	21
	73	MORGANITE LIGHT PINK	1387-1392	183	B	21
	74	MORGANITE YELLOW PINK	1393-1397	184A	B	21
	75	MORGANITE LAVENDER PINK	1398-1403		B	21
	76	MORGANITE BABY PINK	1405-1409	182A	B	22
	77	MORGANITE PEACH PINK	1410A-1415	181, 182	B	22
	78	MORGANITE	1416-1423	180	B	22
	79	MORGANITE SALMON PEACH	1424-1430	180C	B	22
	80	MORGANITE PINK ORANGE	5435-5444	1393, 1435-7	B	23
	81	MORGANITE PEACH ORANGE	1431-1434	1446	B	22
	82	MORGANITE APRICOT	1440-1445	174	B	23
	83	MORGANITE CHAMPAGNE	1450-1453A	175	B	23
	84	MORGANITE CHAMPAGNE	5445-5449	1438, 1449	B	23
	85	TOPAZ GOLDEN YELLOW	5450-5459	1454-1459	B	23

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	87	TOPAZ PINKISH BROWN (SHERRY)	1460-1469	168	C	24
	88	TOPAZ BROWN	1470-1479	166/2,4	C	24
	89	TOPAZ CHOCOLATE BROWN	1480-1486	166, 166/1	C	25
	90	QUARTZ SMOKY (MORION) DARK GRAY	1487-1490		C	25
	91	QUARTZ SMOKY SLIGHTLY BROWNISH GRAY	1491-1495		C	25
	92	QUARTZ SMOKY BROWNISH GRAY	1496-1499/1	NEW	C	25
	93	SIAMITE COLOR-CHANGE (CSARITE): PERidot GREEN GOLDEN CHAMPAGNE YELLOW	5480-5489	NEW	AA+	26
	94	SIAMITE COLOR CHANGE LAVENDER AMETHYST	5490-5494	NEW	AA+	26
	95	SIAMITE COLOR CHANGE	1670-1679		AA+	27
	96	SAPPHIRE ROYAL BLUE	5000-5009	NEW	AA	28
	97	SAPPHIRE ROYAL VIVID BLUE	5010-5019	NEW	AA	28
	98	TANZANITE	5020-5029	1711-1716	AA	28
	99	AMETHYST VIOLET	5030-5039	1640-1646	AA	29
	100	AMETHYST VIOLET PURPLE	5040-5049	1720-1726	AA	29
	101	AMETHYST PURPLE	5050-5059	NEW	AA	29
	102	RUBELITE RED	5060-5069	187 group	AA	30
	103	RUBELITE	5070-5079	1730-1737	AA	30
	104	SPINEL PINK	5080-5089	1540-1546	AA	30
	105	SPINEL ROSE	5090-5099	190/1-5	AA	31
	106	RUBY PURPLISH RED	5100-5109	185/1-5	AA	31
	107	RUBY SLIGHTLY PURPLISH RED	5110-5119	NEW	AA	31
	108	RUBY RED	5120-5129	188/1-5	AA	32
	109	RUBY DARK	5130-5139	1750-1759	AA+/AA	32
	110	TOURMALINE CRANBERRY RED	5140-5144	1570-1574	AA	32
	111	TOURMALINE RASPBERRY RED	5145-5149	1575-1579	AA	32
	112	SPINEL RED (RED HOT CHILI PEPPER)	5150-5159	1650-1659	AA+/AA	33
	113	PADPARADSCHA	5160-5169	NEW	AA	33
	114	SPESSARTINE RED ORANGE	5170-5179	157/1-5	AA	33
	115	SPESSARTINE	5180-5189	156/1-5	AA	34
	116	GARNET ORANGISH RED	5190-5199	159,160 1595-1599	A	34
	117	TOURMALINE BURGUNDY RED	5200-5209	1780-1787	A	34
	118	RHODOLITE VIVID	5210-5219	1790-1799	A	35
	119	RHODOLITE	5220-5225	1610-1614	A	35
	120	RHODOLITE PURPLE	5226-5230	1615-1619	A	35
	121	ALMANDINE	5231-5239	1630-1638	A	35
	122	PYROPE	5240-5249	1624-1629	A	36
	123	GARNET BROWN RED	5250-5259	1600-1609	A	36
	124	GARNET BROWN - ORANGE RED	5260-5267	NEW	A	36

AA+	Dark Ruby, Spinel Dark Red, Color Change, Vivid Kunzite & Pink Tourmaline
AA	Ruby, Vivid Purplish Blue Sapphire and Tanzanite, Purplish Violet Amethyst, Red Spinel and Tourmaline , Rubelite, Padparadscha, Spessartine, Garnet
A	Emerald, Sapphire, Tanzanite, Vivid Kunzite, Pink Tourmaline, Garnet
B	Quartz: Greenish Yellow, Lemon and Lime Green; Demantoid, Tsavorite, Green and Mint Green Tourmaline, Paraiba, Indicolite, Aquamarine, Topaz Blue, Spinel: Blue, Gray and Gray Blue; Lavender Tanzanite and Amethyst, Kunzite, Pink Tourmaline, Morganite, Topaz Golden
C	Colorless, Off White, Citrine, Canary Yellow, Beryl Yellow, Khaki, Praseolite, Peridot, Topaz Brown, Quartz Smoky

COMPANY OVERVIEW

Formica is an international technology group in the area of synthetic materials and one of the world's leading innovators in glass-ceramic materials for luxury markets.

For more than 30 years, Formica applies its unparalleled expertise in synthetic crystals, glass science and nanotechnology, along with its deep manufacturing and engineering capabilities to develop industry-defining products that transform markets.

Formica is the first in the world to introduce glass-ceramics to the jewelry industry and while glass, synthetic crystals and ceramics have been available for along time, glass-ceramic imitation gemstones are starting to make an impact among international jewelers and fashion brands as a new mid-market offering.

MATERIAL OVERVIEW

Glass-ceramics is a composite material constituted of crystals in a glassy matrix. This combination between amorphous and crystalline states makes a new type of material with unique properties. It is in a class of its own between glasses and polycrystalline ceramics.

More recently, Formica developed a new glass-ceramic composition that consists of amorphous mass and nanometer-size (10^{-9}m) crystalline particles homogeneously distributed throughout a glass matrix. With special optical properties and practically no physical expansion over a wide temperature range, this material is used in the manufacture of essential components for luxury goods, such as gemstone imitations, watch glasses and dials.

Formerly known as **Nanogem®** and **Nanocrystal®**, the material has been rebranded as **Siamite®**, the name that is composed of its three main chemical components: Si, Al and Mg.

SIAMITE® made by Formica is in line with security standards for toys, safe landfill and safe textile products and with all of the regulations of REACH (EC) No 1907/2006 and in compliance with EU RoHS. All of the potentially toxic elements measured are within permissible limits.

PRODUCT PORTFOLIO

Siamite® Gemstone Reflections is a premium brand for precision-cut gemstone imitations manufactured in a spectacular range of **transparent, translucent and opaque colors**, special effects, shapes and sizes to use for jewelry and fashion accessories.

Siamite® Gemstone Reflections is currently offered in **850 transparent colors and more than 550 translucent-opaque options**, which allows to achieve consistent color within the product size range from 0.8mm to 30.00mm.

Siamite® is recognized for its unique physical and optical properties, such as close to zero thermal expansion and homogeneous composition which allows for even distribution of color throughout the material. One of key features of Siamite is its ability to withstand high temperatures. Siamite® only begins to melt or decompose at temperatures above 1,500°C, offering exceptional stability, when being set in jewelry using **lost-wax casting**.

And with it's hardness approximating that of a topaz or emerald, and optical properties close to that of a tourmaline, Siamite® is an ideal gemstone imitation material eliminating common drawbacks of synthetic crystal, lead or zirconium glass, such as color zoning, excessively high refractive index and high cost.



SINCE 1992

REFERENCE SHEET



COLOR RANGE



COLOR TONE



STANDARD SHAPES AND SIZES

	GREEN YELLOW	EXL	EXTRA LIGHT	ROUND BRILLIANT CUT	 MIN 0.80 X 0.80 INC 0.5 MAX 15.00 X 15.00	SQUARE PRINCESS CUT	 MIN 2.00 X 2.00 INC 0.25 MAX 12.00 X 12.00
	GREEN	SL	SUPER LIGHT	DOVE ROSE CUT	 MIN 3.00 X 3.00 INC 0.5 MAX 12.00 X 12.00	TRILLION STEP CUT	 MIN 3.00 X 3.00 INC 1.00 MAX 12.00 X 12.00
	BLUE GREEN	VL	VERY LIGHT	CUSHION STEP CUT	 MIN 3.00 X 3.00 INC 1.0 MAX 12.00 X 12.00	OCTAGON STEP CUT	 MIN 3.00 X 5.00 INC 1.00 MAX 12.00 X 16.00
	BLUE	L/VL	LIGHT VERY LIGHT	HEART STEP CUT	 MIN 3.00 X 3.00 INC 1.0 MAX 12.00 X 12.00	BAGUETTE PRINCESS CUT	 MIN 2.00 X 3.00 INC 1.00 MAX 7.00 X 14.00
	VIOLET BLUE	L	LIGHT	OVAL DIAMOND CUT	 MIN 2.00 X 3.00 INC 1.00 MAX 12.00 X 16.00	TAPERED BAGUETTE CUT	 MIN 1.50 X 2.00 X 4.00 INC 0.50 MAX 3.50 X 6.00 X 7.00
	VIOLET	M/L	MEDIUM LIGHT	PEAR DIAMOND CUT	 MIN 2.00 X 3.00 INC 1.00 MAX 12.00 X 16.00	SPHERE BALL	 MIN 0.80 X 0.80 INC 0.10 MAX 20.00 X 20.00
	RED VIOLET	M	MEDIUM	MARQUISE DIAMOND CUT	 MIN 1.50 X 3.00 INC 0.50 MAX 10.00 X 20.00	DOVE CABOCHON CUT	 MIN 0.80 X 0.80 INC 0.10 MAX 20.00 X 20.00
	RED	D/M	DARK MEDIUM				
	ORANGE RED	D	DARK				
	ORANGE	VD/D	VERY DARK DARK				
	YELLOW ORANGE	VD	VERY DARK				
	YELLOW	EXD	EXTRA DARK				

APPLICATION OPTIONS

Siamite® made by Formica is in line with security standards for toys, safe landfill and safe textile products and with all of the regulations of REACH (EC) No 1907/2006 and in compliance with EU RoHS. All of the potentially toxic elements measured are within permissible limits.

Siamite® is a registered trademark of FORMICA (Th) Co., Ltd. Siamite® is protected by U.S. Patent No.: 9,801,435. Additional patents may be pending in the U.S. and elsewhere.

PROCESS

- Lost wax casting

PICKLING

- Vitrex pickle
- Sulphuric acid pickle

PLATING

- Gold coloring
- Silver coating
- Rhodium coating
- Gold plating

SOLDERING

- Bonding
- Hard soldering
- Soft soldering

CLEANING

- Machine grinding and polishing
- Manual grinding and polishing

TREATMENT

- Citric acid
- Potassium hydroxide 10%
- Sulphuric acid 96% 80C

DISCLOSURE OF CHEMICAL INGREDIENTS

MAIN COMPONENTS

SiO₂, Al₂O₃, MgO, TiO₂, ZrO₂, ZnO, CaO, Na₂O, K₂O, Li₂O

HAZARDOUS SUBSTANCES

RADIOACTIVE ELEMENTS	NONE
ANTIMONY	NONE
BARIUM	NONE
CADMIUM	NONE
CHROMIUM	NONE
LEAD	NONE
MERCURY	NONE
SELENIUM	NONE

SIAMITE® LAB GROWN GEMSTONE REFLECTION
FOR YOUR **JEWELRY DESIGN**

	ID	REF	SAT	COLOR	PRICE REF
TOPAZ WHITE	No 1000			Colorless	C
	No 1001	# 101		Extremely light yellow	C
TOPAZ OFF-WHITE BLUE	No 1002	# 100/1		Extremely light blue	C
	No 1003	# 100/2		Extremely light noticeable blue	C
	No 1004	# 100/3		Extremely light slightly noticeable blue	C
	No 1005	# 104/7	ExL	Extremely light sky blue	C
TOPAZ VERY LIGHT GREEN	No 1147		ExL	Extremely light blue green	B
	No 1129		ExL	Extremely light bluish green	B
	No 1127		ExL	Extremely light slightly bluish green	B
	No 1128		ExL	Extremely light green	B
	No 1006		ExL	Extremely light green	B
	No 1007		ExL	Extremely light yellowish green	B
TOPAZ OFF-WHITE YELLOW	No 1008	# 102/5	ExL	Extremely light greenish yellow	C
	No 1009	# 177	ExL	Extremely light yellow	C
TOPAZ CANARY YELLOW	No 1010	# 102 SD	D	Orangish yellow	C
	No 1011	# 102VD	D/M	Orangish yellow	C
	No 1012	# 102	M	Slightly orangish yellow	C
	No 1013		M/L	Very slightly orangish yellow	C
	No 1014	# 102/1	L	Yellow	C
	No 1015		L/VL	Yellow	C
	No 1016	# 102/2	VL	Very slightly greenish yellow	C
	No 1017	# 102/3	VL/ExL	Very slightly greenish yellow	C
No 1018	# 102/4	ExL	Very slightly greenish yellow	C	
CITRINE	No 1019		VD	Orange yellow	C
	No 1020	#171	D	Orange yellow	C
	No 1021	# 172	D/M	Orangish yellow	C
	No 1022	# 172/1	M	Slightly orangish yellow	C
	No 1023	# 173	M/L	Yellow	C
	No 1024	# 173/1	L	Yellow	C
	No 1025	# 173/2	VL	Slightly greenish yellow	C

	ID	REF	SAT	COLOR	PRICE REF
BERYL YELLOW	No 1026	# 501	D/M	Yellow	C
	No 1027	# 501/1	M	Yellow	C
	No 1028	# 501/2	L	Yellow	C
	No 1029	# 501/3	VL	Very slightly greenish yellow	C
	No 1030	# 501/4	ExL	Slightly greenish yellow	C
QUARTZ GREENISH YELLOW	No 1031	# 503/1	D/M	Strongly greenish yellow	B
	No 1032	# 503/2	M	Medium strongly greenish yellow	B
	No 1033	# 503/3	M	Greenish yellow	B
	No 1034	# 503/4	M	Greenish yellow	B
	No 1035	# 503/5	M	Slightly greenish yellow	B
QUARTZ LEMON (GREEN YELLOW)	No 1036	# 502	M	Green yellow	B
	No 1037	# 502/1	M/L	Yellow green	B
	No 1038	# 502/2	L	Yellow green	B
	No 1039	# 502/3	L	Yellow green	B
	No 1040	# 502/4	L/VL	Yellow green	B
HELIODOR KHAKI YELLOW	No 1041		L	Slightly greenish grayish yellow	C
	No 1042	# 1499	L	Slightly greenish grayish yellow	C
	No 1043	# 1497	L/VL	Slightly greenish gray yellow	C
	No 1044	# 1495	L/VL	Slightly greenish gray yellow	C
QUARTZ LIME GREEN	No 1045	# 176/1	M/L	Lime green	B
	No 1046	# 176/2	L	Lime green	B
	No 1047	# 176/3	L/VL	Lime green	B
	No 1048	# 176A	VL	Lime green	B
	No 1049	# 176	ExL	Yellowish Lime green	B
PERIDOT	No 1050	# 152/1	D	Yellowish green	C
	No 1051	# 152/2	D/M	Yellowish green	C
	No 1052	# 152/3	M	Strongly yellowish green	C
	No 1053	# 152	M	Strongly yellowish green	C
	No 1054	# 152A	M/L	Strongly yellowish green	C
	No 1055	# 152B	M	Yellow green	C
	No 1058		D	Slightly yellowish green	C
	No 1056	# 151	D/M	Slightly yellowish green	C
	No 1059		M	Slightly yellowish green	C
	No 1057	# 151A	L	Slightly yellowish green	C

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	ID	REF	SAT	COLOR	PRICE REF
DEMANTOID	No 1060	# 109	VD	Very slightly yellowish green	A
	No 1061	# 109/1	D	Slightly yellowish green	A
	No 1062	# 109/2	D/M	Slightly yellowish green	A
	No 1063	# 109/3	M	Slightly yellowish green	A
	No 1064	# 109/4	L	Yellowish green	A
	No 1065	# 103/6	VL	Yellowish green	A
	No 1066		D/M		A
	No 1067		M		A
	No 1068		L		A
	No 1069		VL		A
TSAVORITE GREEN	No 1070	# 153	D	Green	B
	No 1071	# 153/1	D/M	Green	B
	No 1072	# 153 A	D/M	Very slightly yellowish green	B
	No 1073	# 154	M	Very slightly yellowish green	B
	No 1074	# 154/1	L	Very slightly yellowish green	B
	No 1075	# 155	VL	Very slightly yellowish green	B
PRASEOLITE (GREEN AMETHYST)	No 1076	# 1086	M/L	Slightly yellowish grayish green	C
	No 1077	# 1087	L	Very slightly yellowish grayish green	C
	No 1078	# 1088	L	Slightly grayish green	C
	No 1079	# 1089	V/L	Very slightly bluish grayish green	C
	No 5476		L	Yellowish green	C
	No 5477		L	Green	C
	No 5478		L	Slightly bluish green	C
	No 5479		L	Slightly bluish green	C
TSAVORITE SLIGHTLY YELLOWISH GREEN	No 1080	# 108	VD	Green	B
	No 1081	# 108/1	D	Green	B
	No 1082	# 108/2	D/M	Very slightly yellowish green	B
	No 1083	# 108/3	M	Slightly yellowish green	B
	No 1084	# 108/4	L	Slightly yellowish green	B
	No 1085	# 103/5	VL	Slightly yellowish green	B

	ID	REF	SAT	COLOR	PRICE REF
EMERALD SLIGHTLY YELLOWISH GREEN	<u>No 1100</u>	# 111-SD	VD	Green	A
	<u>No 1101</u>	# 111	VD/D	Green	A
	<u>No 1102</u>	# 112	D	Green	A
	<u>No 1103</u>	# 113	D/M	Green	A
	<u>No 1104</u>	# 114	M	Green	A
	<u>No 1105</u>	# 114/1	L	Green	A
	<u>No 1106</u>	# 103/1	VL	Green	A
EMERALD GREEN	<u>No 1110</u>	# 111A-SD	VD	Very slightly bluish green	A
	<u>No 1111</u>	# 111 A	VD/D	Very slightly bluish green	A
	<u>No 1112</u>	# 112 A	D	Very slightly bluish green	A
	<u>No 1113</u>	# 113 A	D/M	Very slightly bluish green	A
	<u>No 1114</u>	# 114 A	M	Very slightly bluish green	A
	<u>No 1115</u>	# 114/1 A	L	Very slightly bluish green	A
	<u>No 1116</u>	# 103/2	VL	Very slightly bluish green	A
EMERALD SLIGHTLY BLUISH GREEN	<u>No 1117</u>		VD/D	Slightly bluish green	A
	<u>No 1118</u>		D/M	Slightly bluish green	A
	<u>No 1119</u>		M/L	Slightly bluish green	A
EMERALD BLUISH GREEN	<u>No 1120</u>	# 115-SD	VD	Bluish green	A
	<u>No 1121</u>	# 115	VD/D	Bluish green	A
	<u>No 1122</u>	# 116	D	Bluish green	A
	<u>No 1123</u>	# 117	D/M	Bluish green	A
	<u>No 1124</u>	# 118	M	Bluish green	A
	<u>No 1125</u>	# 118/1	L	Bluish green	A
	<u>No 1126</u>	# 103/3	VL	Bluish green	A
EMERALD STRONG BLUISH GREEN (COLOMBIAN COLOR)	<u>No 5310</u>		VD	Strong bluish green	A
	<u>No 5311</u>		VD/D	Strong bluish green	A
	<u>No 5312</u>		D	Strong bluish green	A
	<u>No 5313</u>		D/M	Bluish green	A
	<u>No 5314</u>		D/M	Strong bluish green	A
	<u>No 5315</u>		M	Strong bluish green	A
	<u>No 5316</u>		M	Bluish green	A
	<u>No 5317</u>		M	Slightly bluish green	A
	<u>No 5318</u>		M/L	Strong bluish green	A
	<u>No 5319</u>		L	Strong bluish green	A
	<u>No 5320</u>		L/VL	Strong bluish green	A

SIAMITE® LAB GROWN GEMSTONE REFLECTION
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	ID	REF	SAT	COLOR	PRICE REF
EMERALD BLUE GREEN	No 1140	# 105-SD	VD	Blue green	A
	No 1141	# 105	VD/D	Blue green	A
	No 1142	# 106	D	Blue green	A
	No 1143	# 106/1	D/M	Blue green	A
	No 1144	# 107	M	Blue green	A
	No 1145	# 108	L	Blue green	A
	No 1146	# 103/4	VL	Blue green	A
TOURMALINE BLUE GREEN	No 1150		ExD	Grayish blue green	B
	No 1151	# 131	VD	Grayish blue green	B
	No 1152	# 132	VD/D	Grayish blue green	B
	No 1153	# 133	D	Grayish blue green	B
	No 1154	# 134	D/M	Grayish blue green	B
	No 1155	# 134 A	M	Grayish blue green	B
	No 1156	# 134 B	L	Grayish blue green	B
	No 1157		VD	Green	B
	No 1158		VD/D	Green	B
	No 1159		D	Green	B
TOURMALINE SLIGHTLY BLUISH MINT GREEN	No 1130		VD	Bluish mint green	B
	No 1131		VD/D	Bluish mint green	B
	No 1132		D	Bluish mint green	B
	No 1133		D/M	Bluish mint green	B
	No 1134		M	Bluish mint green	B
	No 1135		M/L	Slightly bluish mint green	B
	No 1136		L	Slightly bluish mint green	B
	No 1137		L/VL	Very slightly bluish mint green	B
	No 1138		VL	Very slightly bluish mint green	B
	No 1139		ExL	Very slightly bluish mint green	B
TOURMALINE MINT GREEN	No 1160		D	Mint green	B
	No 1161	# 119	D/M	Mint green	B
	No 1162	# 120	M	Mint green	B
	No 1163	# 120 A	L	Mint green	B
	No 1164	# 120 B	L	Slightly bluish mint green	B

	ID	REF	SAT	COLOR	PRICE REF
PARAIBA SLIGHTLY BLUISH GREEN	No 1165		VD/D	Slightly bluish green	B
	No 1166		D/M	Slightly bluish green	B
	No 1167		M	Slightly bluish green	B
	No 1168		L	Slightly bluish green	B
	No 1169		L/VL	Slightly bluish green	B
	No 1169 A		VL	Very slightly bluish green	B
	No 1169 B		ExL	Very slightly bluish green	B
PARAIBA BLUISH GREEN	No 1170		VD	Bluish green	B
	No 1171	# 110/1	D	Bluish green	B
	No 1172	# 110/2	M	Bluish green	B
	No 1173	# 110/3	L	Bluish green	B
	No 1173 A		VL	Bluish green	B
	No 1174	# 110/4	ExL	Bluish green	B
PARAIBA BLUE GREEN	No 1175		VD/D	Blue green	B
	No 1176		D	Blue green	B
	No 1177		M	Blue green	B
	No 1178		L	Blue green	B
	No 1179		VL	Blue green	B
PARAIBA GREEN BLUE	No 1180	# 150/1	D	Green blue	B
	No 1181	# 150/2	M	Green blue	B
	No 1182	# 150/3	L	Green blue	B
	No 1183	# 150/4	VL	Green blue	B
PARAIBA GREENISH BLUE	No 1184		VD/D	Slightly greenish blue	B
	No 1185		D	Slightly greenish blue	B
	No 1186		M	Slightly greenish blue	B
	No 1187		L	Slightly greenish blue	B
	No 1188		VL	Slightly greenish blue	B
	No 1189		ExL	Slightly greenish blue	B
AQUAMARINE (AQUA GREEN)	No 1190	# 149/1	VD	Green blue	B
	No 1191	# 149/2	D	Green blue	B
	No 1192	# 149/3	M	Green blue	B
	No 1193	# 149/4	L	Green blue	B
	No 1194	# 149/5	VL	Green blue	B

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	ID	REF	SAT	COLOR	PRICE REF
AQUAMARINE (AQUA BLUE)	No 1195		D	Slightly greenish blue	B
	No 1196		M	Greenish blue	B
	No 1197		L	Greenish blue	B
	No 1198		VL	Greenish blue	B
	No 1199	# 148	ExL	Greenish blue	B
TOPAZ ROYAL GREEN BLUE	No 1200	# 147/6	D	Green blue swiss	B
	No 1201	# 147/7	D/M	Green blue swiss	B
	No 1202	# 147/8	M	Green blue sky	B
	No 1203	# 147/9	L	Green blue sky	B
	No 1204	# 147/10	VL	Green blue sky	B
TOPAZ ROYAL GREENISH BLUE	No 1205	# 147 A	VD	Greenish blue	B
	No 1206	# 147/1	D	Greenish blue	B
	No 1207	# 147/2	M	Greenish blue	B
	No 1208	# 147/3	L	Greenish blue	B
	No 1209	# 147/4	VL	Greenish blue	B
TOPAZ SLIGHTLY GREENISH BLUE	No 1225	# 141	VD	Slightly greenish blue	B
	No 1226	# 141/1	D	Slightly greenish blue	B
	No 1227	# 141/2	M	Slightly greenish blue	B
	No 1228		L	Slightly greenish blue	B
	No 1229		VL	Slightly greenish blue	B
APATITE NEON BLUE	No 5280	NEW	M	Apatite neon blue	B
	No 5281	NEW	M	Apatite neon blue	B
	No 5282	NEW	M	Apatite neon blue	B
	No 5283	NEW	M/L	Apatite neon blue	B
	No 5284	NEW	L	Apatite neon blue	B
	No 5285	NEW	L	Apatite neon blue	B
TOPAZ (CLASSIC) VERY SLIGHTLY GREENISH BLUE	No 1210	# 146	ExD	Slightly greenish blue	B
	No 1211	# 146/1	VD	Slightly greenish blue	B
	No 1212	# 146/2	D	Slightly greenish blue	B
	No 1213	# 146/3	M	Slightly greenish blue	B
	No 1214	# 146/4	L	Slightly greenish blue	B
	No 1215	# 146/5	VL	Slightly greenish blue	B
	No 1216	# 146/6	ExL	Slightly greenish blue	B

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	ID	REF	SAT	COLOR	PRICE REF
TOPAZ SWISS AND SKY BLUE	<u>No 1220</u>	# 142	VD/D	Swiss blue	B
	<u>No 1221</u>	# 143	D	Swiss blue	B
	<u>No 1222</u>	# 143/1	M	Swiss blue	B
	<u>No 1222 A</u>		L	Sky blue	B
	<u>No 1223</u>	# 144	VL	Sky blue	B
	<u>No 1224</u>	# 145	ExL	Sky blue	B
TOPAZ GREENISH BLUE	<u>No 1086</u>		ExD/VD	Strong bluish green	B
	<u>No 1087</u>		ExD/VD	Blue green	B
	<u>No 1088</u>		VD	Blue green	B
	<u>No 1089</u>		VD/D	Blue green	B
	<u>No 1090</u>		D	Blue green	B
	<u>No 1091</u>		M/L	Blue green	B
	<u>No 1092</u>		D/M	Blue green	B
	<u>No 1093</u>		D/M	Green blue	B
	<u>No 1094</u>		M	Green blue	B
	<u>No 1095</u>		M	Greenish blue	B
	<u>No 1096</u>		M/L	Greenish blue	B
	<u>No 1097</u>		M	Slightly greenish blue	B
	<u>No 1098</u>		M/L	Slightly greenish blue	B
	<u>No 1099</u>		L	Slightly greenish gray blue	B
TOPAZ DEEP SEA BLUE (GREENISH GRAY BLUE)	<u>No 1230</u>	# 139/1,2	ExD	Greenish gray blue	B
	<u>No 1231</u>	# 139/3	VD	Greenish gray blue	B
	<u>No 1232</u>	# 139/4	D	Greenish gray blue	B
	<u>No 1233</u>	NEW	D/M	Greenish gray blue	B
	<u>No 1234</u>	# 139/5	M	Greenish gray blue	B
TOPAZ LONDON BLUE	<u>No 1255</u>	# 130/5, 130/6	ExD	Very slightly grayish blue	B
	<u>No 1256</u>	# 130/7	VD	Very slightly grayish blue	B
	<u>No 1257</u>	# 130/8	D	Slightly grayish blue	B
	<u>No 1258</u>	# 130/9	M	Grayish blue	B
	<u>No 1259</u>	NEW	L	Grayish blue	B

SIAMITE® LAB GROWN GEMSTONE REFLECTION
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	ID	REF	SAT	COLOR	PRICE REF
TOPAZ LONDON BLUE	No 5330		VD	Slightly greenish gray blue	B
	No 5331		VD/D	Slightly greenish gray blue	B
	No 5332		D	Slightly greenish gray blue	B
	No 5333		D/M	Slightly greenish gray blue	B
	No 5334		M	Slightly greenish gray blue	B
	No 5335		L	Very slightly greenish gray blue	B
	No 5336		D	Grayish blue	B
	No 5337		M	Grayish blue	B
	No 5338			Slightly grayish blue	B
	No 5339		M/L	Grayish blue	B
INDICOLITE GREENISH BLUE	No 1235	# 135	ExD	Greenish blue	B
	No 1236	# 136	VD	Greenish blue	B
	No 1237	# 137	D	Green blue	B
	No 1238	# 138	M	Green blue	B
	No 1239	# 140	D	Greenish blue	B
	No 1240	# 140/1	M	Greenish blue	B
INDICOLITE BLUE	No 5325	NEW	VD	Slightly greenish blue	B
	No 5326	NEW	D	Slightly greenish blue	B
	No 5327	NEW	D/M	Slightly greenish blue	B
	No 5328	NEW	M	Very slightly greenish blue	B
	No 5329	NEW	M	London blue	B
SPINEL ROYAL BLUE (SANTORINI BLUE)	No 1241	# 104 VD	VD	Royal blue	B
	No 1242	# 104/1	VD/D	Royal blue	B
	No 1243	# 104/2	D	Royal blue	B
	No 1244	# 104/3	D/M	Royal blue	B
	No 1248		M	Royal blue	B
	No 1245		M/L	Royal blue	B
	No 1246	# 104/4	L	Royal blue	B
	No 1247	# 104/5	ExL	Royal blue	B
	No 1249	# 107/6	L/VL	Royal blue	B

	ID	REF	SAT	COLOR	PRICE REF
SPINEL SLIGHTLY GREENISH BLUE	<u>No 5340</u>		VD	Slightly greenish blue	B
	<u>No 5341</u>		D	Slightly greenish blue	B
	<u>No 5342</u>		D/M	Slightly greenish blue	B
	<u>No 5343</u>		M	Slightly greenish blue	B
	<u>No 5344</u>		M/L	Slightly greenish blue	B
	<u>No 5345</u>		L	Slightly greenish blue	B
	<u>No 5346</u>		L/VL	Slightly greenish blue	B
	<u>No 5347</u>		VL	Slightly greenish blue	B
SPINEL BLUE	<u>No 1250</u>	# 130 A	VD	Strongly royal blue	B
	<u>No 1251</u>	# 130/1	VD/D	Strongly royal blue	B
	<u>No 1252</u>	# 130/2	D	Strongly royal blue	B
	<u>No 1253</u>	# 130/3	D/M	Very slightly grayish blue	B
	<u>No 1253 A</u>		M	Slightly grayish blue	B
	<u>No 1254</u>	# 130/4	M/L	Slightly grayish blue	B
SPINEL GRAY BLUE (AURORA BLUE)	<u>No 1260</u>		ExD	Gray blue	B
	<u>No 1261</u>	# 197	ExD/VD	Blue gray	B
	<u>No 1262</u>	# 198	VD	Gray blue	B
	<u>No 1263</u>	# 199	D	Gray blue	B
	<u>No 1264</u>	# 1100, 200	D/M	Gray blue	B
	<u>No 1265</u>	# 1254 A	M	Gray blue	B
	<u>No 1266</u>	# 1269	L	Grayish blue	B
	<u>No 1267</u>	# 1267 A	M	Grayish blue	B
	<u>No 1268</u>	# 1259	M/L	Bluish gray	B
	<u>No 1268 A</u>		M/L	Bluish gray	B
	<u>No 1269</u>	# 1269 A	L	Bluish gray	B
	<u>No 1269 A</u>		L	Bluish gray	B
SPINEL GRAY BLUE (NIGHT BLUE)	<u>No 1280</u>	# 191	ExD	Gray violet blue	B
	<u>No 1281</u>		ExD/VD	Gray violet blue	B
	<u>No 1282</u>	# 192	VD	Gray violet blue	B
	<u>No 1283</u>		D	Gray violet blue	B
	<u>No 1284</u>	# 195	M	Gray violet blue	B
	<u>No 1285</u>		VD/D	Gray blue	B
	<u>No 1286</u>		D	Gray blue	B
	<u>No 1287</u>		D	Gray blue	B
	<u>No 1288</u>		D/M	Gray blue	B
	<u>No 1289</u>		M	Gray blue	B

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	ID	REF	SAT	COLOR	PRICE REF
TOPAZ ASH (CADET) GRAY	No 5275		D/M	Ash (cadet) gray	B
	No 5276		D/M	Ash (cadet) gray	B
	No 5277		M	Ash (cadet) gray	B
	No 5278		L	Ash (cadet) gray	B
	No 5279		L/VL	Ash (cadet) gray	B
SPINEL GRAY	No 1270		ExD	Gray	B
	No 1271		ExD/VD	Gray	B
	No 1272		VD	Gray	B
	No 1273		D	Gray	B
	No 1274		D/M	Gray	B
	No 1275		M	Gray	B
	No 1276		M/L	Gray	B
	No 1277		L	Gray	B
	No 1278		L/VL	Gray	B
	No 1279		VL	Gray	B
GREENISH GRAY (BLACK DIAMOND)	No 1660		ExD	Greenish gray	B
	No 1661		VD	Greenish gray	B
	No 1662		D	Greenish gray	B
	No 1663		D/M	Slightly greenish gray	B
	No 1664		M	Slightly greenish gray	B
GRAY GREEN (GREEN SAPPHIRE)	No 1665		VD	Gray green	B
	No 1666		D	Gray green	B
	No 1667		M	Gray green	B
	No 1668		L	Gray green	B
	No 1669		VL	Gray green	B

	ID	REF	SAT	COLOR	PRICE REF
SAPPHIRE GRAY BLUE	<u>No 1290</u>	# 121/1	ExD	Slightly violetish grayish blue	A
	<u>No 1291</u>	# 121/2	ExD/VD	Slightly violetish grayish blue	A
	<u>No 1292</u>	# 121/3	VD	Slightly violetish grayish blue	A
	<u>No 1293</u>	# 121/4	VD/D	Slightly violetish gray blue	A
	<u>No 1294</u>		D	Violetish gray blue	A
	<u>No 1295</u>		ExD	Violetish grayish blue	A
	<u>No 1296</u>		ExD/VD	Violetish grayish blue	A
	<u>No 1297</u>		VD	Violetish strongly grayish blue	A
	<u>No 1298</u>		VD/D	Violetish gray blue	A
	<u>No 1299</u>		D	Violetish gray blue	A
SAPPHIRE GRAYISH BLUE	<u>No 1300</u>	# 122/1	ExD/VD	Slightly violetish, very slightly grayish blue	A
	<u>No 1301</u>	# 122/2	VD	Slightly violetish, very slightly grayish blue	A
	<u>No 1302</u>	# 122/3	VD/D	Slightly violetish, slightly grayish blue	A
	<u>No 1303</u>	# 122/4	D	Slightly violetish, slightly grayish blue	A
	<u>No 1304</u>		D/M	Slightly violetish, slightly grayish blue	A
	<u>No 1305</u>		ExD/VD	Violetish slightly grayish blue	A
	<u>No 1306</u>		VD	Violetish slightly grayish blue	A
	<u>No 1307</u>		VD/D	Violetish grayish blue	A
	<u>No 1308</u>		D	Violetish grayish blue	A
	<u>No 1309</u>		D/M	Violetish grayish blue	A
SAPPHIRE SLIGHTLY GRAYISH BLUE	<u>No 1310</u>	# 125/1	VD	Very slightly grayish blue	A
	<u>No 1311</u>	# 125/2	VD/D	Very slightly grayish violetish blue	A
	<u>No 1312</u>	# 125/3	D	Slightly grayish violetish blue	A
	<u>No 1313</u>	# 125/4	D/M	Grayish violetish blue	A
	<u>No 1314</u>		M	Gray violetish blue	A
	<u>No 1315</u>		VD	Very slightly grayish violet blue	A
	<u>No 1316</u>	# 125/6	VD/D	Very slightly grayish violet blue	A
	<u>No 1317</u>	# 125/7	D	Slightly grayish violet blue	A
	<u>No 1318</u>	# 125/8	D/M	Grayish violet blue	A
	<u>No 1319</u>	# 125/9	M	Gray violet blue	A

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	ID	REF	SAT	COLOR	PRICE REF
SAPPHIRE VIOLETISH BLUE	No 1320	# 128/4	VD/D	Violetish blue	A
	No 1321	# 128/5	D	Violetish blue	A
	No 1322	# 128/6	D/M	Violetish blue	A
	No 1323	# 128/10	M	Violetish blue	A
	No 1324	# 128	M/L	Very slightly grayish, violetish blue	A
	No 1325	# 129	L	Slightly grayish, violetish blue	A
	No 1326	# 128/8	D/M	Strongly violetish blue	A
	No 1327	# 128/11	M	Strongly violetish blue	A
	No 1328	# 128/1	M/L	Strongly violetish blue	A
	No 1329	# 128/2	L	Very slightly grayish, strongly violetish blue	A
SAPPHIRE VIVID VIOLETISH BLUE	No 1330		VD/D	Slightly violetish blue	A
	No 1331		D	Slightly violetish blue	A
	No 1332		D/M	Violetish blue	A
	No 1333		M	Strongly violetish blue	A
	No 1334		M/L	Violet blue	A
SAPPHIRE VIVID SLIGHTLY VIOLETISH BLUE	No 1335	# 123/1	D	Slightly violetish blue	A
	No 1336	# 123/2	D/M	Slightly violetish blue	A
	No 1337	# 123/3	M	Slightly violetish blue	A
	No 1338	# 123/4	M/L	Slightly violetish blue	A
	No 1339	# 123/5	L	Slightly violetish blue	A
SAPPHIRE VIVID VIOLET BLUE	No 1340	# 124/1	D	Vivid strongly violetish blue	A
	No 1341	# 124/2	D/M	Vivid strongly violetish blue	A
	No 1342	# 124/3	M	Vivid strongly violetish blue	A
	No 1343		D/M	Vivid violet blue	A
	No 1344		M	Vivid violet blue	A
	No 1345		M/L	Vivid violet blue	A
SPINEL LAVENDER	No 1346		D	Purple gray	A
	No 1347		VD/D	Gray purple	A
	No 1348	# 128/3	M	Grayish purple	A
	No 1349	# 127/4	L	Grayish purple	A

	ID	REF	SAT	COLOR	PRICE REF
SAPPHIRE CORNFLOWER BLUE	<u>No 1355</u>		D	Violet blue	A
	<u>No 1356</u>		D/M	Violet blue	A
	<u>No 1357</u>		M	Violet blue	A
	<u>No 1358</u>		M/L	Violet blue	A
	<u>No 1359</u>		L	Blue violet	A
SAPPHIRE BLUE	<u>No 5300</u>		VD/D	Blue	A
	<u>No 5301</u>		D	Blue	A
	<u>No 5302</u>		D/M	Blue	A
	<u>No 5303</u>		D/M	Blue	A
	<u>No 5304</u>		M	Blue	A
	<u>No 5305</u>		M/L	Blue	A
	<u>No 5306</u>		M/L	Very slightly grayish blue	A
	<u>No 5307</u>		M/L	Slightly grayish blue	A
	<u>No 5308</u>		L	Slightly grayish blue	A
	<u>No 5309</u>		L/VL	Grayish blue	A
SAPPHIRE LIGHT BLUE	<u>No 1350</u>		D/M	Blue	A
	<u>No 1351</u>		M	Blue	A
	<u>No 1352</u>		M/L	Blue	A
	<u>No 1353</u>		M/L	Blue	A
	<u>No 1354</u>		L	Blue	A
SAPPHIRE LIGHT BLUE	<u>No 5321</u>		M	Slightly grayish blue	A
	<u>No 5322</u>		M/L	Blue	A
	<u>No 5323</u>		M/L	Slightly violetish blue	A
	<u>No 5324</u>		L	Blue	A
TANZANITE	<u>No 5364</u>		VD/D	Slightly grayish violet blue	B
	<u>No 5365</u>		D	Violet blue	B
	<u>No 5366</u>		D/M	Violet blue	B
	<u>No 5367</u>		M	Violet blue	B
	<u>No 5368</u>		M/L	Violet blue	B
	<u>No 5369</u>		L	Violet blue	B

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	ID	REF	SAT	COLOR	PRICE REF
TANZANITE - AMETHYST LAVENDER - LILAC	No 5370		M	Lavender tanzanite	B
	No 5371		M	Lavender tanzanite	B
	No 5372		M	Lavender tanzanite	B
	No 5373		M/L	Amethyst lavender-lilac	B
	No 5374		M/L	Amethyst lavender-lilac	B
	No 5375		M/L	Amethyst lavender-lilac	B
	No 5376		L	Amethyst lavender-lilac	B
	No 5377		L	Amethyst lavender-lilac	B
	No 5378		L	Amethyst lavender-lilac	B
	No 5379		L/VL	Amethyst lavender-lilac	B
KUNZITE - PINK TOURMALINE	No 5380		M/L	Purple pink	B
	No 5381		M/L	Strongly purplish pink	B
	No 5382		L	Purplish pink	B
	No 5383		L/VL	Slightly purplish pink	B
	No 5384		L/VL	Very slightly purplish pink	B
	No 5385		VL	Pink	B
SAPPHIRE LAVENDER BLUE	No 1360	# 127/1	D	Very slightly grayish lavender blue	B
	No 1361	# 127/2	D/M	Very slightly grayish lavender blue	B
	No 1362	# 127/3	D/M	Very slightly grayish lavender blue	B
	No 1363	# 128/9	M	Very slightly grayish lavender blue	B
	No 1364		L	Very slightly grayish lavender blue	B
	No 1365	# 127/7	M/L	Lavender	B
	No 1366	# 127/6	M/L	Lavender	B
AMETHYST LAVENDER - LILAC	No 1369	# 170/4	M	Lavender-lilac	B
	No 1370	# 170/6	M/L	Lavender-lilac	B
	No 1371	# 170/7	L	Lavender-lilac	B
	No 1372	# 170/8	L/VL	Lavender-lilac	B
	No 1373	# 170/1	L	Lilac	B
	No 1374	# 170/2	L	Lilac	B
	No 1375	# 170/3	L/VL	Lilac	B

	ID	REF	SAT	COLOR	PRICE REF
KUNZITE - PINK TOURMALINE VIVID	No 1376		M	Purplish pink	AA+
	No 1377		M/L	Slightly purplish pink	AA+
	No 1377/1		L	Slightly purplish pink	AA+
	No 1378		L/VL	Very slightly purplish pink	AA+
	No 1379		VL	Pink	AA+
	No 1379/1		VL	Pink	AA+
KUNZITE	No 1380	# 178 A	M	Purple pink	B
	No 1381	# 178 B	M	Purple pink	B
	No 1382	# 179	M/L	Purplish pink	B
	No 1383	# 179 A	M/L	Slightly purplish pink	B
	No 1384	# 179 B	L	Slightly purplish pink	B
	No 1385	# 179 C	L	Very slightly purplish pink	B
	No 1386 A	# 179 D	L	Very slightly purplish pink	B
	No 1386 B	# 179 E	L	Very slightly purplish pink	B
MORGANITE LIGHT PINK	No 1387		ExL	Very slightly purplish light pink	B
	No 1388		L/VL	Light pink	B
	No 1389		L/VL	Light pink	B
	No 1390		L	Very slightly purplish light pink	B
	No 1391	# 183	VL	Light pink	B
	No 1392		L/VL	Pink	B
MORGANITE YELLOW PINK	No 1393	# 1394 A	L	Light yellowish pink	B
	No 1394		L	Light strongly yellowish pink	B
	No 1395	# 184 A	L	Light slightly yellowish pink	B
	No 1396	# 184 B	L	Light strongly yellowish pink	B
	No 1397	# 184 C	L	Light yellow pink	B
MORGANITE LAVENDER PINK	No 1398		D/M	Pinkish purple	B
	No 1399		M	Pinkish purple	B
	No 1400		M	Lavender pink	B
	No 1401		M/L	Lavender pink	B
	No 1402		L	Lavender pink	B
	No 1403		L/VL	Lavender pink	B

SIAMITE® LAB GROWN GEMSTONE REFLECTION
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	ID	REF	SAT	COLOR	PRICE REF
MORGANITE BABY PINK	No 1405	# 182 B	VL	Light pink	B
	No 1406	# 500/4	L	Light pink	B
	No 1407	# 505/4	L	Light pink	B
	No 1408	# 500/3, 182 A	L	Light pink	B
	No 1409	# 500/1	M/L	Light pink	B
MORGANITE PEACH PINK	No 1410 A		D	Peach pink	B
	No 1410 B	# 181		Slightly purplish pink	B
	No 1410 C			Lavender - Pink	B
	No 1411	# 182	D/M	Peach pink	B
	No 1412		M	Peach pink	B
	No 1413		M	Peach pink	B
	No 1414		M/L	Peach pink	B
	No 1415		M/L	Peach pink	B
MORGANITE	No 1416	# 505/3	L/VL	Orangy pink	B
	No 1417	# 505/6	VL	Orangy pink	B
	No 1418	# 505/2	L	Orangy pink	B
	No 1419	# 182 C	L	Orangy pink	B
	No 1420	# 182 E	L/VL	Orangy pink	B
	No 1421	# 180 A	L	Orangy pink	B
	No 1422	# 180	L/VL	Orangy pink	B
	No 1423	# 180 B	L	Orangy pink	B
MORGANITE SALMON PEACH	No 1424	# 182 D	L	Peachy pink	B
	No 1425	# 505/5	L	Peachy pink	B
	No 1426	# 180 C	L	Peachy pink	B
	No 1427	# 505/1	M/L	Peachy pink	B
	No 1428	# 182 F	M/L	Salmon peach pink	B
	No 1429	# 180 D	M/L	Salmon peach pink	B
	No 1430	# 505/7	M	Salmon peach pink	B
MORGANITE PEACH ORANGE	No 1431	# 1446	D/M	Peach orange	B
	No 1432	# 1447	M	Peach orange	B
	No 1433		M/L	Peach orange	B
	No 1434		L	Peach orange	B

	ID	REF	SAT	COLOR	PRICE REF
MORGANITE PINK ORANGE	No 5435		L	Apricot pink	B
	No 5436		L	Apricot pink	B
	No 5437		L	Apricot pink	B
	No 5438		L	Slightly yellowish pink	B
	No 5439		L	Yellowish pink	B
	No 5440		L	Yellow pink	B
	No 5441		L	Yellow pink	B
	No 5442		M	Yellow pink	B
	No 5443		M/L	Pink orange	B
	No 5444		M/L	Pinkish orange	B
MORGANITE APRICOT	No 1440	# 574/4	L	Slightly yellowish pink	B
	No 1441	# 174 B	L	Yellowish pink	B
	No 1442		L	Yellowish pink	B
	No 1443	# 574/5	L	Strongly yellowish pink	B
	No 1444	# 574/6	L	Yellow pink	B
	No 1445	# 174	L	Yellow pink	B
MORGANITE CHAMPAGNE	No 1450	# 175	L	Slightly pinkish yellow orange	B
	No 1451		L	Pinkish yellow orange	B
	No 1452		M/L	Very slightly pinkish yellow orange	B
	No 1453		L	Pinkish yellow orange	B
	No 1453 A		L	Pinkish yellow orange	B
MORGANITE CHAMPAGNE	No 5445		M	Medium orange	B
	No 5446	# 1438	L	Light orange	B
	No 5447	# 1449	L/VL	Slightly pinkish yellow orange	B
	No 5448	# 1448	L	Orangish yellow	B
	No 5449	# 1439	L	Yellow peach	B
TOPAZ GOLDEN YELLOW	No 5450	# 1454	D/M	Orange yellow	B
	No 5451	# 1455, 175 C	M	Orange yellow	B
	No 5452	# 1446	M	Very slightly pinkish orange yellow	B
	No 5453	# 1456	M	Slightly pinkish orange yellow	B
	No 5454	# 1457	L	Orangish yellow	B
	No 5455	# 1447, 175 A	M/L	Orangish yellow	B
	No 5456		D	Orange yellow	B
	No 5457		D/M	Orange yellow	B
	No 5457 A		M	Orange yellow	B
	No 5458	# 1458, 175/2	M/L	Orangish yellow	B
	No 5459	# 1459	L	Orangish yellow	B

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	ID	REF	SAT	COLOR	PRICE REF
IMPERIAL TOPAZ GOLDEN - ORANGE PINK - YELLOW	No 5460		M		B
	No 5461		M/L		B
	No 5462		M/L		B
	No 5463		L		B
	No 5464		L		B
	No 5465		L/VL		B
	No 5466		VL		B
	No 5467		VL		B
	No 5468		VL		B
TOPAZ PINKISH BROWN	No 1460	# 168/1	VD		C
	No 1461	# 168/2	VD/D		C
	No 1462	# 168/3	D		C
	No 1463	# 168/4	D/M		C
	No 1464	# 168/5	M		C
	No 1465	# 168/6	M/L		C
	No 1466		L		C
	No 1467		L/VL		C
	No 1468		VL		C
	No 1469		ExL		C
TOPAZ BROWN	No 1470	# 166/2	ExD/VD		C
	No 1471	# 166/4	VD		C
	No 1472		VD/D		C
	No 1473	# 166/8	D		C
	No 1474		D/M		C
	No 1475		M		C
	No 1476		M/L		C
	No 1477		L		C
	No 1478		L		C
	No 1479		L/VL		C

	ID	REF	SAT	COLOR	PRICE REF
TOPAZ CHOCOLATE BROWN	<u>No 1480</u>	# 1481, 166	ExD	Chocolate brown	C
	<u>No 1481</u>	# 166/5, 166/1	ExD/VD	Chocolate brown	C
	<u>No 1482</u>	# 1483, 1484	VD	Chocolate brown	C
	<u>No 1483</u>	# 1485	VD/D	Chocolate brown	C
	<u>No 1484</u>	# 1486	D	Chocolate brown	C
	<u>No 1485</u>		D/M	Chocolate brown	C
	<u>No 1486</u>		M	Chocolate brown	C
QUARTZ SMOKY MORION (VERY SLIGHTLY BROWNISH DARK GRAY)	<u>No 1487</u>		ExD	Very slightly brownish gray	C
	<u>No 1488</u>		VD	Very slightly brownish gray	C
	<u>No 1489</u>		D	Very slightly brownish gray	C
	<u>No 1490</u>		D/M	Very slightly brownish gray	C
QUARTZ SMOKY SLIGHTLY BROWNISH GRAY	<u>No 1491</u>		D	Grayish brown	C
	<u>No 1492</u>		D/M	Grayish brown	C
	<u>No 1493</u>		M	Grayish brown	C
	<u>No 1494</u>		L	Grayish brown	C
	<u>No 1495</u>		VL	Yellowish brown	C
QUARTZ SMOKY BROWNISH GRAY	<u>No 1496</u>		D	Brownish gray	C
	<u>No 1497</u>		D/M	Brownish gray	C
	<u>No 1498</u>		M	Brownish gray	C
	<u>No 1499</u>		M/L	Brownish gray	C
	<u>No 1499/1</u>		L	Greenish yellow gray	C

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	ID	REF	SAT	COLOR	PRICE REF
SIAMITE COLOR CHANGE CSARITE PERIDOT - GOLDEN CHAMPAGNE YELLOW	No 5480		M/L		AA+
	No 5481		L		AA+
	No 5482	# 1676	L	Slightly yellowish green Peridot Citrine	AA+
	No 5483	# 1406	M/L		AA+
	No 5484		M/L		AA+
	No 5485		L		AA+
	No 5486		M/L		AA+
	No 5487		L		AA+
	No 5488		M/L	Yellowish green Peridot Orangish yellow	AA+
	No 5489	# 1677	M/L	Yellowish green Peridot Orangish yellow	AA+
SIAMITE COLOR CHANGE LAVENDER - AMETHYST	No 5490		M/L		AA+
	No 5491		M/L		AA+
	No 5492		L		AA+
	No 5493	# 1671	VL	Lavender Purplish pink	AA+
	No 5494		L	Lavender Light Amethyst	AA+

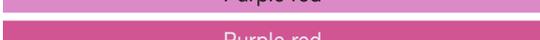
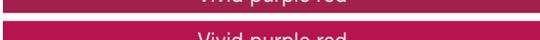
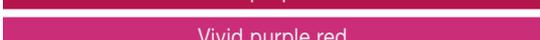
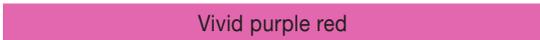
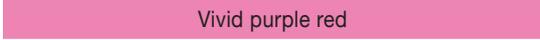
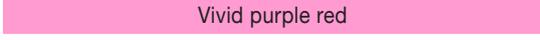
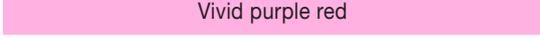
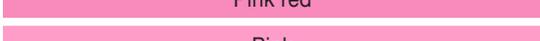
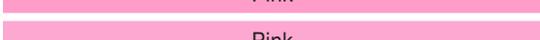
	ID	REF	SAT	COLOR	PRICE REF
SIAMITE COLOR CHANGE	No 1670		L	Aqua green (cyan)	AA+
				Violet pink	
	No 1672		VL	Slightly yellowish green Peridot	AA+
				Orangy yellow	
	No 1673		VL	Champagne, Pinkish orange	AA+
				Lemon yellow	
	No 1674		VL	Sky blue Topaz	AA+
				Violet pink	
No 1675		D/M	Sapphire blue	AA+	
			Amethyst violet		
No 1677		M/L	Yellowish green Peridot	AA+	
			Orangish yellow		
No 1678		M	Yellow green Peridot	AA+	
			Orange yellow		
No 1679		D/M	Green yellow	AA+	
			Golden yellow		

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	ID	REF	SAT	COLOR	PRICE REF
SAPPHIRE ROYAL BLUE	No 5000	NEW	ExD	Blue	AA
	No 5001	NEW	ExD/VD	Blue	AA
	No 5002	NEW	VD	Blue	AA
	No 5003	NEW	VD/D	Blue	AA
	No 5004	NEW	VD/D	Blue	AA
	No 5005	NEW	D	Blue	AA
	No 5006	NEW	D	Blue	AA
	No 5007	NEW	D/M	Blue	AA
	No 5008	NEW	M	Blue	AA
	No 5009	NEW	M	Blue	AA
SAPPHIRE ROYAL VIVID BLUE	No 5010	NEW	ExD	Vivid very slightly violetish blue	AA
	No 5011	NEW	VD	Vivid very slightly violetish blue	AA
	No 5012	NEW	VD/D	Vivid very slightly violetish blue	AA
	No 5013	NEW	D	Vivid very slightly violetish blue	AA
	No 5014	NEW	D	Vivid very slightly violetish blue	AA
	No 5015	NEW	D/M	Vivid very slightly violetish blue	AA
	No 5016	NEW	M	Vivid very slightly violetish blue	AA
	No 5017	NEW	M	Vivid very slightly violetish blue	AA
	No 5018	NEW	M/L	Vivid very slightly violetish blue	AA
	No 5019	NEW	M/L	Vivid very slightly violetish blue	AA
TANZANITE	No 5020		ExD	Vivid slightly violetish blue	AA
	No 5021	# 1711, 126/1	ExD/VD	Vivid slightly violetish blue	AA
	No 5022	NEW	VD	Vivid slightly violetish blue	AA
	No 5023	# 1712	VD/D	Vivid slightly violetish blue	AA
	No 5024	# 1713	D	Vivid slightly violetish blue	AA
	No 5025	NEW	D/M	Vivid slightly violetish blue	AA
	No 5026	NEW	M	Vivid slightly violetish blue	AA
	No 5027	# 1715	M	Vivid slightly violetish blue	AA
	No 5028	NEW	M/L	Vivid slightly violetish blue	AA
	No 5029	# 1716	L	Vivid slightly violetish blue	AA

	ID	REF	SAT	COLOR	PRICE REF
AMETHYST VIOLET	No 5030	# 1640	ExD	Vivid violetish blue	AA
	No 5031	# 1641	ExD/VD	Vivid violetish blue	AA
	No 5032	NEW	VD	Vivid violetish blue	AA
	No 5033	# 1642	VD/D	Vivid violetish blue	AA
	No 5034	# 1643	D	Vivid violetish blue	AA
	No 5035	# 1644	D/M	Vivid violetish blue	AA
	No 5036	NEW	D/M	Vivid violetish blue	AA
	No 5037	# 1645	M	Vivid violetish blue	AA
	No 5038	NEW	M/L	Vivid violetish blue	AA
	No 5039	# 1646	L	Vivid violetish blue	AA
AMETHYST VIOLET PURPLE	No 5040	# 1720, 164/1	ExD	Bluish purple	AA
	No 5041	NEW	ExD	Bluish purple	AA
	No 5042	NEW	ExD/VD	Bluish purple	AA
	No 5043	# 1721, 164/2	ExD/VD	Bluish purple	AA
	No 5044	# 1722, 164/3	VD	Bluish purple	AA
	No 5045	# 1723, 164/4	VD/D	Bluish purple	AA
	No 5046	# 1724, 164/5	D	Bluish purple	AA
	No 5047	NEW	D/M	Bluish purple	AA
	No 5048	# 1725	M	Bluish purple	AA
	No 5049	# 1726	L	Bluish purple	AA
AMETHYST PURPLE	No 5050	NEW	ExD	Slightly bluish purple	AA
	No 5051	NEW	ExD	Slightly bluish purple	AA
	No 5052	NEW	VD	Slightly bluish purple	AA
	No 5053	NEW	VD/D	Purple	AA
	No 5054	NEW	D	Purple	AA
	No 5055	NEW	D/M	Purple	AA
	No 5056	NEW	D/M	Purple	AA
	No 5057	NEW	M	Purple	AA
	No 5058	NEW	M/L	Pinkish purple	AA
	No 5059	NEW	L	Pink purple	AA

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	ID	REF	SAT	COLOR	PRICE REF
RUBELLITE RED	No 5060	# 1530, 187	VD		AA
	No 5061	# 1531, 187/1	VD/D		AA
	No 5062	# 1532, 187/2	D		AA
	No 5063	# 1533, 187/3	D/M		AA
	No 5064	# 1534, 187/4	M		AA
	No 5065	NEW	M/L		AA
	No 5066	NEW	L		AA
	No 5067	# 1537	L		AA
	No 5068	NEW	L/VL		AA
	No 5069	NEW	VL		AA
RUBELLITE	No 5070	# 1730	VD		AA
	No 5071	# 1731	VD/D		AA
	No 5072	# 1732	D		AA
	No 5073	# 1733	D		AA
	No 5074	NEW	D/M		AA
	No 5075	# 1734	M		AA
	No 5076	NEW	M/L		AA
	No 5077	# 1737	L		AA
	No 5078	NEW	L		AA
	No 5079	NEW	L/VL		AA
SPINEL PINK	No 5080	# 1540	VD		AA
	No 5081	# 1541	VD/D		AA
	No 5082	# 1542	D		AA
	No 5083	NEW	D/M		AA
	No 5084	# 1543	D/M		AA
	No 5085	# 1544	M		AA
	No 5086	NEW	M		AA
	No 5087	NEW	M/L		AA
	No 5088	# 1545	M/L		AA
	No 5089	# 1546	L		AA

	ID	REF	SAT	COLOR	PRICE REF
SPINEL ROSE	No 5090	# 1740, 190/1	VD	Rose red	AA
	No 5091	# 1741, 190/2	VD/D	Rose red	AA
	No 5092	# 1742, 190/3	D	Rose red	AA
	No 5093	# 1743, 190/4	D/M	Rose red	AA
	No 5094	NEW	M	Rose red	AA
	No 5095	# 1744, 190/5	M	Rose red	AA
	No 5096	NEW	M/L	Rose red	AA
	No 5097	# 1745	M/L	Rose red	AA
	No 5098	NEW	L	Rose	AA
	No 5099	NEW	L/VL	Rose	AA
RUBY PURPLISH RED	No 5100	# 1550, 185SD	VD	Vivid purplish red	AA
	No 5101	# 1551, 185/1	VD/D	Vivid purplish red	AA
	No 5102	# 1552, 185/2	D	Vivid purplish red	AA
	No 5103	# 1553, 185/3	D/M	Vivid purplish red	AA
	No 5104	# 1554, 185/4	M	Vivid purplish red	AA
	No 5105	# 1555, 185/5	M/L	Rose	AA
	No 5106	# 1556, 185/6	L	Rose / pink	AA
	No 5107	# 1557, 185/7	L	Pink	AA
	No 5108	# 1558, 185/8	L/VL	Pink	AA
	No 5109	# 1559, 185/9	L/VL	Pink	AA
RUBY SLIGHTLY PURPLISH RED	No 5110		ExD/VD	Slightly purplish red	AA
	No 5111		VD	Slightly purplish red	AA
	No 5112		VD/D	Slightly purplish red	AA
	No 5113		D	Slightly purplish red	AA
	No 5114		D/M	Slightly purplish red	AA
	No 5115		M	Slightly purplish red	AA
	No 5116		M/L	Slightly purplish red	AA
	No 5117		M/L	Slightly purplish red	AA
	No 5118		L	Slightly purplish red	AA
	No 5119		L/VL	Slightly purplish red	AA

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	ID	REF	SAT	COLOR	PRICE REF
RUBY RED	No 5120	# 1560, 188SD	ExD	Red	AA
	No 5121	# 1561, 188/1	ExD/VD	Red	AA
	No 5122	# 1562, 188/2	VD	Red	AA
	No 5123	# 1563, 188/3	VD/D	Red	AA
	No 5124	# 1564, 188/4	D	Red	AA
	No 5125	# 1565, 188/5	D/M	Red	AA
	No 5126	# 1566	M	Red	AA
	No 5127	# 1567	M/L	Red	AA
	No 5128	# 1568	L	Red	AA
	No 5129	# 1569	L/VL	Red	AA
RUBY DARK	No 5130	# 1750	ExD	Red	AA+
	No 5131	# 1751	ExD/VD	Red	AA+
	No 5132	# 1752	ExD/VD	Red	AA+
	No 5133	# 1753	ExD	Slightly purplish red	AA+
	No 5134	# 1754	ExD/VD	Slightly purplish red	AA
	No 5135	# 1755	VD	Slightly purplish red	AA
	No 5136	# 1756	ExD	Purplish red	AA+
	No 5137	# 1757	ExD/VD	Purplish red	AA
	No 5138	# 1758	VD	Purplish red	AA
	No 5139	# 1759	ExD/VD	Purplish red	AA
TOURMALINE CRANBERRY RED	No 5140	# 1570, 189/1	VD	Slightly orangish red	AA
	No 5141	# 1571, 189/2	VD/D	Slightly orangish red	AA
	No 5142	# 1572, 189/3	D	Slightly orangish red	AA
	No 5143	# 1573, 189/4	D/M	Slightly orangish red	AA
	No 5144	# 1574, 189/5	M	Slightly orangish red	AA
TOURMALINE RASPBERRY RED	No 5145	# 1575	VD/D	Cranberry red	AA
	No 5146	# 1576	D	Slightly orangish pink red	AA
	No 5147	# 1577	D/M	Cranberry red	AA
	No 5148	# 1578	M	Slightly orangish pink red	AA
	No 5149	# 1579	M/L	Cranberry red	AA

	ID	REF	SAT	COLOR	PRICE REF
SPINEL RED (RED HOT CHILI PEPPER)	No 5150	# 1650	ExD	Slightly orangish red	AA+
	No 5151	# 1651	ExD/VD	Slightly orangish red	AA+
	No 5152	# 1652	VD	Slightly orangish red	AA+
	No 5153	# 1653	VD/D	Slightly orangish red	AA+
	No 5154	# 1654	D	Slightly orangish red	AA
	No 5155	# 1655	D/M	Slightly orangish red	AA
	No 5156	# 1656	M	Slightly orangish red	AA
	No 5157	# 1657	M/L	Slightly orangish red	AA
	No 5158	# 1658	L	Slightly orangish red	AA
	No 5159	# 1659	L	Slightly orangish red	AA
PADPARADSCHA	No 5160	NEW	D	Very slightly yellowish pink red	AA
	No 5161	NEW	D/M	Very slightly yellowish pink red	AA
	No 5162	NEW	L	Very slightly yellowish pink red	AA
	No 5163	NEW	D/M	Very slightly yellowish pink red	AA
	No 5164	NEW	M	Very slightly yellowish pink red	AA
	No 5165	NEW	L	Very slightly yellowish pink red	AA
	No 5166	NEW	D/M	Yellowish red orange	AA
	No 5167	NEW	M	Yellowish red orange	AA
	No 5168	NEW	M/L	Yellowish red orange	AA
	No 5169	NEW	L	Yellowish red orange	AA
SPESSARTINE RED ORANGE	No 5170	NEW	ExD/VD	Yellowish red orange	AA
	No 5171	NEW	VD	Yellowish red orange	AA
	No 5172	# 1771, 157/2	VD/D	Yellowish red orange	AA
	No 5173	# 1772, 157/3	D	Yellowish red orange	AA
	No 5174	# 1773, 157/4	D/M	Yellowish red orange	AA
	No 5175	# 1774, 157/5	M	Yellowish red orange	AA
	No 5176	NEW	M/L	Yellowish red orange	AA
	No 5177	# 1776	M/L	Yellowish red-orange	AA
	No 5178	NEW	L	Yellowish red-orange	AA
	No 5179	NEW	L	Yellowish red-orange	AA

SIAMITE® LAB GROWN GEMSTONE REFLECTION
FOR YOUR **JEWELRY DESIGN**

	ID	REF	SAT	COLOR	PRICE REF
SPESSARTINE	No 5180	# 1580, 156/1	ExD	Red orange	AA
	No 5181	# 1581, 156/2	ExD/VD	Red orange	AA
	No 5182	# 1582, 156/3	VD	Red orange	AA
	No 5183	# 1583, 156/4	VD/D	Red orange	AA
	No 5184	# 1584, 156/5	D	Red orange	AA
	No 5185	NEW	D/M	Red orange	AA
	No 5186	NEW	M	Red orange	AA
	No 5187	# 1585	M/L	Red orange	AA
	No 5188	# 1586	L	Red orange	AA
	No 5189	# 1587	L	Red orange	AA
GARNET ORANGISH RED	No 5190	# 1590, 159	VD	Yellowish orange red	A
	No 5191	# 1591, 160/1	VD/D	Yellowish orange red	A
	No 5192	NEW,160/2,3	D	Yellowish orange red	A
	No 5193	# 1594,160/4	M	Yellowish orange red	A
	No 5194	NEW	M/L	Yellowish orange red	A
	No 5195	NEW	VD	Orangish red	A
	No 5196	NEW	VD/D	Orangish red	A
	No 5197	NEW	D	Orangish red	A
	No 5198	NEW	M	Orangish red	A
	No 5199	NEW	L	Orangish red	A
TOURMALINE BURGUNDY RED	No 5200	# 1780	ExD	Slightly orangish purple red	A
	No 5201		ExD/VD	Slightly orangish purple red	A
	No 5202	# 1781	VD	Slightly orangish purple red	A
	No 5203	# 1782	VD/D	Slightly orangish purple red	A
	No 5204		D	Slightly orangish purple red	A
	No 5205	# 1783	D/M	Slightly orangish purple red	A
	No 5206	# 1784	M	Slightly orangish purple red	A
	No 5207		M/L	Slightly orangish purple red	A
	No 5208	# 1785	L	Slightly orangish purple red	A
	No 5209		L	Slightly orangish purple red	A

	ID	REF	SAT	COLOR	PRICE REF
RHODOLITE VIVID	No 5210	# 1790	VD	Pinkish purple red	A
	No 5211	# 1791	VD/D	Pinkish purple red	A
	No 5212	# 1792	D	Pinkish purple red	A
	No 5213	# 1793	D/M	Pinkish purple red	A
	No 5214	# 1794	M	Pinkish purple red	A
	No 5215	# 1795	L	Pinkish purple red	A
	No 5216	# 1796	VD/D	Purple red	A
	No 5217	# 1797	D	Purple red	A
	No 5218	# 1798	M	Rose red	A
	No 5219	# 1799	L	Rose red	A
RHODOLITE	No 5220	# 1610	VD	Pinkish purple red	A
	No 5221	# 1611	VD/D	Pinkish purple red	A
	No 5222	# 1612, 162/2	D	Pinkish purple red	A
	No 5223	# 1613, 162/3	D/M	Pinkish purple red	A
	No 5224	# 1614, 162/4	M	Pinkish purple red	A
	No 5225	NEW	L	Pinkish purple red	A
RHODOLITE PURPLE	No 5226	# 1615	ExD/VD	Purple red	A
	No 5227	# 1616	VD	Purple red	A
	No 5228	# 1617,8, 163/3,4	D	Purple red	A
	No 5229	# 1619, 163/5	M	Purple red	A
	No 5230	NEW	L	Purple red	A
ALMANDINE	No 5231	# 1630	ExD	Red brown	A
	No 5232	# 1631	ExD/VD	Red brown	A
	No 5233	# 1632	VD	Red brown	A
	No 5234	# 1633	VD/D	Red brown	A
	No 5235	# 1634	D	Red brown	A
	No 5236	# 1635	D/M	Red brown	A
	No 5237	# 1638	M	Red brown	A
	No 5238	# 1636	M/L	Red brown	A
	No 5239	# 1637	M/L	Red brown	A

SIAMITE® LAB GROWN GEMSTONE REFLECTION
FOR YOUR **JEWELRY DESIGN**

	ID	REF	SAT	COLOR	PRICE REF
PYROPE	No 5240	# 1624	VD	Purplish orange red	A
	No 5241	# 1625	VD/D	Purplish orange red	A
	No 5242	# 1626	D	Purplish orange red	A
	No 5243		D/M	Purplish orange red	A
	No 5244	# 1627	M	Purplish orange red	A
	No 5245	# 1628	M/L	Purplish orange red	A
	No 5246	# 1629	D/M	Slightly brownish red	A
	No 5247		M	Slightly brownish red	A
	No 5248		M/L	Slightly brownish red	A
	No 5249		L	Slightly brownish red	A
GARNET BROWN RED	No 5250	# 1600	ExD	Brown red	A
	No 5251	# 1601	ExD/VD	Brown red	A
	No 5252	# 1602	VD	Brown red	A
	No 5253	# 1603	VD/D	Brown red	A
	No 5254	# 1604	D	Brown red	A
	No 5255	# 1605	D/M	Brown red	A
	No 5256	# 1606	M	Brown red	A
	No 5257	# 1607	M/L	Brown red	A
	No 5258	# 1608	L	Brown red	A
	No 5259	# 1609	L	Brown red	A
GARNET BROWN - ORANGE - RED	No 5260	NEW	ExD	Red brown	B
	No 5261	NEW	VD	Red brown	B
	No 5262	NEW	VD/D	Red brown	B
	No 5263	NEW	D	Red brown	B
	No 5264	NEW	D/M	Red brown	B
	No 5265	NEW	M	Reddish orange	B
	No 5266	NEW	M	Reddish orange	B
	No 5267	NEW	M/L	Reddish orange	B



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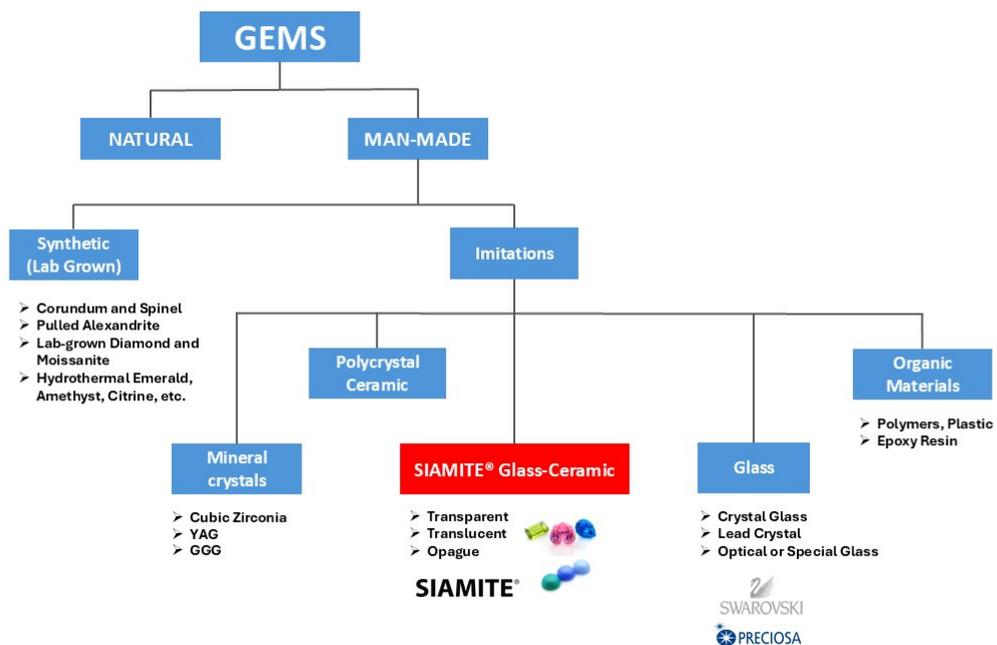


SIAMITE® glass-ceramic – the breakthrough gemstone reflection material

Karen Avakyan, Ph.D. in Geology and Mineralogy, the founder and owner of the **Formica group** (author of the idea of using **glass-ceramics in the jewelry industry** as an imitation of gemstones).

Gems are an essential component of jewelry. Along with natural ones, man-made stones are also widely used. **Man-made artificial stones** are traditionally divided into **Synthetic Crystals** (with the same chemical and physical properties as natural gems) and **Imitations** (that do not exist in nature) (Table 1).

Table 1. Jewelry stones classification.



Synthetic crystals include lab-grown diamonds and moissanite, hydrothermal emerald, alexandrite, quartz, sapphire, ruby, and others. Until recently, **Imitations** were represented by two main types of materials: glass or crystal-glass (Swarovski, Preciosa, Asfour...) and crystal-mineral (Cubic Zirconia, YAG, GGG). However, recently, imitations such as ceramics (polycrystalline material), polymers (Kyocera opal), epoxy resins, and other organic materials have become widely used.

SIAMITE® gemstone reflections debuted in the market of imitation-colored gemstones just over 20 years ago. **It was Formica that first developed the technology and began producing a completely new material for the jewelry industry - glass ceramics** (patented in the USA and 25 other countries). Its early trade names were **nanocrystal** and **nanogem**; later in 2018, we officially registered the trademark **SIAMITE®**.

During this time, it has become highly sought after by many jewelry manufacturers and is widely used by world-famous brands. However, many gemologists and jewelry specialists still do not have an accurate idea of the nature of this material and often wonder "how does it differ from glass, cubic zirconia, corundum, and other traditional materials and why is it better than them?".

Minerals or mineral crystals (natural gemstones, synthetic and imitations) have a fixed proper chemical composition and a crystalline grid. The main problem inherent in all minerals is color

variation. This is because the composition of the melt or solution at the end of crystallization process is different from the initial one. **Glass or crystal glass** (Swarovski, Preciosa, Murano, ...) does not contain a crystalline structure and can be defined as an amorphous solid or completely frozen liquid. Colored glass is very homogeneous in color, but inferior to minerals in hardness, brittleness, luster, and refractive index. **Glass-ceramic** is a hybrid composite material that contains both a crystalline phase and an amorphous glass at the same time.

In nature, there is also a similar hybrid stone – **obsidian**. This is a volcanic rock formed during the eruption of underwater volcanoes. Under such conditions, hot lava cools quickly and turns into volcanic glass. But despite the transience of this process, nano and micro-sized crystals of quartz, feldspar, magnetite and the other minerals have time to crystallize in small quantities.

So, **SIAMITE® glass-ceramic**, created by Formica, is an entirely new type of gemstone imitation that did not exist before. Consequently, many people have question: **what is the glass-ceramic?**

Glass-ceramics are ceramic materials formed through the controlled crystallization of glass. Production takes place in two stages: in the first stage, a special high-temperature glass is produced using almost standard glass making technology, and in the second stage, this glass undergoes special heat treatment, during which nuclei and then crystals of minerals emerge. It is important to emphasize that crystallization occurs in the solid state (without melting), and the composition, size, and quantity of crystals depend on the initial glass composition, the temperature, and the duration of the heat treatment. This controlled crystallization allows the production of transparent (crystal size less than 10 nm), translucent (10–20 nm), and opaque (more than 20 nm) glass ceramics.

Clearly, the physical properties of glass-crystalline material significantly differ from those of the original glass. This breakthrough hybrid material combines valuable properties inherent in both crystals and glass, which cannot be found in glass or crystals alone.

Glass-ceramics are developed and implemented in various fields of science and technology. They are used for **cookware, electric stove tops, telescope mirrors, and missile radoms (Fig.1).**

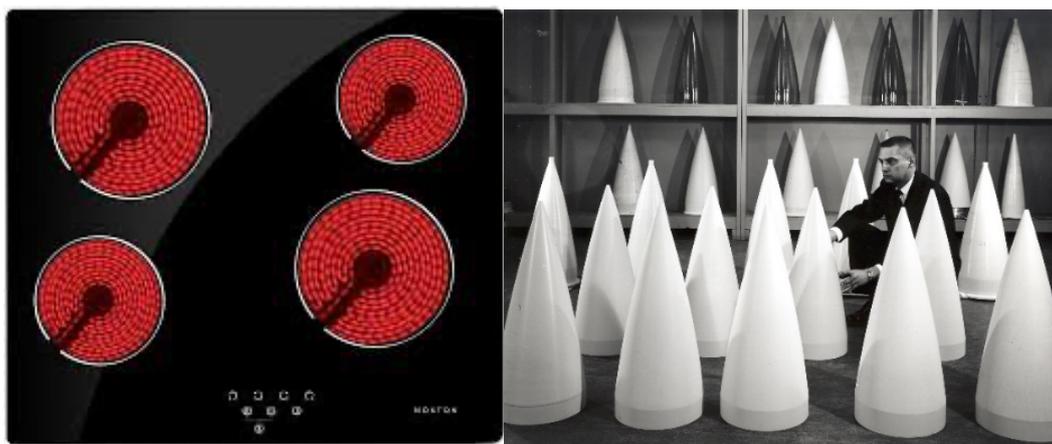


Figure 1. (a) NOXTON glass-ceramic cooktop (www.amazon.com) (b) PYROCERAM glass-ceramic missile radomes (www.corning.com)

Their composition is highly variable depending on the application and the required properties. Many applications of glass-ceramics are based on their superior resistance to failure due to thermal shock.

This particular property became the main reason prompting the author to extensively investigate existing types of glass-ceramics and choose the most suitable system for imitating color gemstones.

So, the criteria for selection were **resistance to thermal shocks** at the melting temperatures of silver, gold, bronze, and other jewelry alloys (960-1200°C), relatively **high hardness, density, and refractive index** values, as close as possible to similar parameters in the most sought-after natural gemstones.

Having thoroughly studied the properties of a large number of glass-ceramic materials, we settled on the so-called cordierite system **SiO₂-Al₂O₃-MgO** (Fig.2). The trademark **SIAMITE®** was chosen based on two considerations: 1) the chemical formulas of the three main components start with **Si**, **A**, and **M** (SIAM); 2) Formica established the production of its material in Thailand, historically known as **SIAM**. The ending **"ite"** is commonly used in mineralogy and petrography for many minerals and rocks.

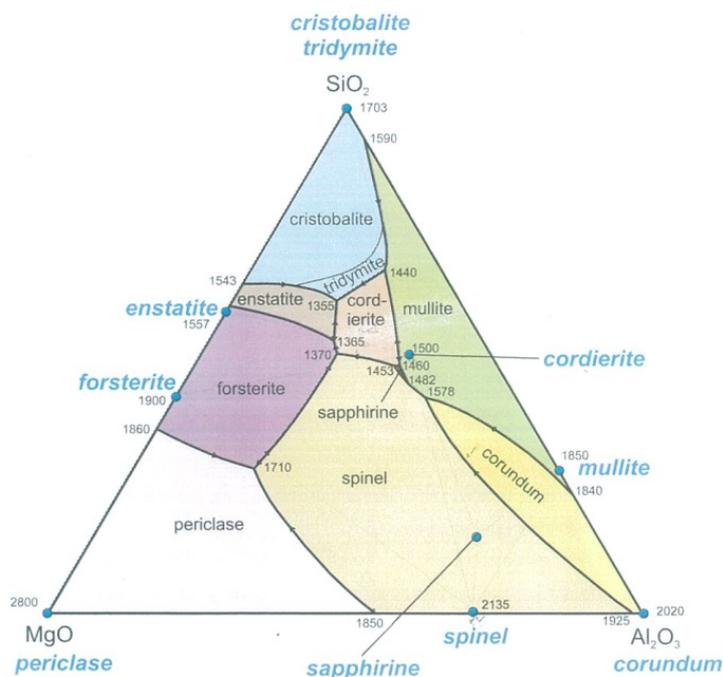


Figure 2. SiO₂-Al₂O₃-MgO phase diagram (Levin et al. 1964)

In addition to the three main components mentioned above, the material contains TiO₂, ZrO₂, ZnO, Li₂O as well as some nucleating, fining, and coloring agents. This composition allows obtaining, in the first stage, a homogeneous and color-consistent high-temperature glass and then crystallizing **nanosized** (one nanometer is one-billionth of a meter) crystals of **zinc spinel – gahnite** within it. Alongside spinel, nanocrystals of rutile, zirconium titanate, and others also form. Their presence is determined through **X-ray diffraction analysis** (Fig.10).

Thus, **SIAMITE®** is a **nanocrystalline glass-ceramic material, comprising nanosized crystals of spinel and other minerals (depending on color), uniformly distributed in the amorphous high-temperature aluminosilicate glass matrix**. The size and concentration of nanocrystals affect the degree of transparency of the material and its color. As they increase, the transparent material becomes first, translucent, and then opaque.

The physical properties of **SIAMITE®** gemstone reflections (**hardness 7.5-8, density 2.9-3.3 g/cm³, RI = 1.60-1.63**) are optimally close to such natural gemstones as **tourmaline, topaz, and emerald** (see the attached Table 2). The quartz group (amethyst, citrine, smoky quartz, etc.) lags behind SIAMITE® in all three indicators, while corundum, spinel, and garnet have higher densities and refractive indices. Corundum surpasses SIAMITE® and all other gemstones in hardness.

The physical properties and chemical composition of SIAMITE® are very different from natural obsidians and this does not give us the right to include it in the group of synthetic stones. But they have similar physical nature – because they arise during the rapid cooling of glass and its subsequent partial crystallization. We can say that we have managed to reproduce a process like the natural one in the laboratory. In this sense, **SIAMITE® is a laboratory-grown material.**

Table 2. Physical properties of SIAMITE®, Natural Gemstones, Cubic Zirconia, and Crystal Glass

	Mohs Hardness Scale	Density g/cm ³	Refractive Index
SIAMITE®	7.5-8	2.9-3.3	1.60-1.63
Tourmaline	7.0-7.5	2.82-3.22	1.61-1.67
Topaz	8	3.5	1.61-1.64
Emerald (Beryl)	7.5-8	2.67-2.78	1.56-1.6
Quartz	7	2.65	1.54-1.55
Spinel	7.5-8	3.61	1.719
Garnet	6.5-7.5	3.56-3.73	1.71-1.74
Corundum	9	4	1.76-1.78
Obsidian	5-6	2.4	1.45-1.55
Cubic Zirconia	8-8.5	5.8-6.1	2.09-2.17
Crystal Glass	5.5	2.5-2.59	1.52-1.55

It is known that many natural and synthetic crystals and glasses cannot be used for the "Setting Stones in Wax" method because they crack or change color under the influence of a high temperature melt of gold, silver, bronze, or brass. Therefore, one of the most important advantages of SIAMITE® over other synthetic stones and imitations is its **resistance to thermal shocks (Fig.3)**. This is primarily determined by the low thermal expansion coefficient both in the crystalline phase and in the residual glass. In other words, during heating or cooling, the dimensions of the stones hardly change, and therefore, they do not crack or break.



Figure 3. Silver jewelry tree and pendants with SIAMITE® stones made by the lost wax casting process.

The second very important advantage of glass-ceramics is the **uniformity and homogeneity of color**. This is due to the nature of this material, its composition, and structure. In this sense, all types of glass-ceramics are similar to the original glasses because they are also uniform in color despite the complexity of their compositions. The subsequent crystallization of glasses and their transformation into glass ceramics does not disrupt the uniformity of color due to the even distribution of nanocrystals throughout the material volume.

The complete catalog of **transparent SIAMITE®** gemstone reflections includes about **780** different colors and shades (Fig. 4,5,6,7), along with more than **550** translucent and opaque varieties (Fig.8). They are part of **104** transparent color groups (groups of emeralds, blue topazes, sapphires, rubies, tourmalines...) and approximately 50 translucent and opaque groups (groups of turquoise, moonstones, lapis lazuli, jadeites...).



Figure 4. SIAMITE® Samples Catalog and small size cut stones package and color range.



Figure 5. SIAMITE® reflections of the most common natural gemstones.

The ability to produce many colors, shades, and saturations is another unique feature of SIAMITE®. This allows for the creation of a wide range of imitations of natural gems from different deposits: emeralds ranging from yellowish-green to bluish-green (Zambian, Brazilian, Colombian, and other types); sapphires from gray-blue to violet-blue (Australian, Ceylon, ...); amethysts from violet to purple-blue and purple (Brazilian, Uruguayan, ...); topaz (London Blue, Swiss, Sky Blue), and so on (Fig. 6).



Figure 6. SIAMITE® Topaz reflections - Greenish Blue, Swiss Blue, Sky Blue and London Blue color.

And the abundance of choices in saturation enables the production of cut stones in any shape with consistent color, ranging from 0.8 mm to at least 20 mm (Fig. 7).

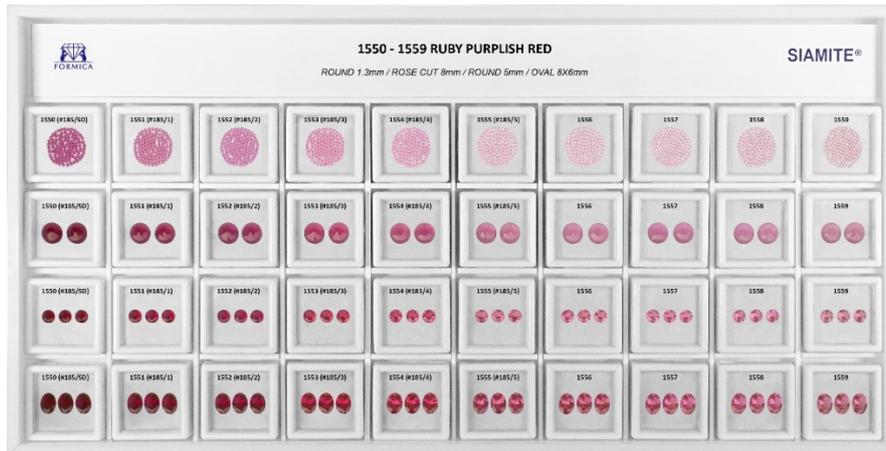


Figure 7. SIAMITE® Ruby reflections of different saturation - color group 1550-1559. Sizes of cut stones: round 1.3 and 5 mm, rose cut 8 mm, oval 8x6 mm.

The uniqueness of the properties of glass-ceramics allows for an unlimited range of varieties not only in color but also in transparency. This is achieved by controlling changes in the concentration and particle size of nanocrystals. The **translucent and opaque SIAMITE®** imitate decorative gemstones such as **moonstone, cacholong, chrysoprase, jade, lapis lazuli, turquoise, black spinel, and others (Fig. 8)**. The hardness, density and resistance to thermal shock are approximately the same as those of transparent SIAMITE®.



Figure 8. Translucent and Opaque SIAMITE®: Moonstone, Cacholong, Chrysoprase, Jade, Lapis Lazuli, Turquoise reflection. Cabochon size 12 mm.

It is important to consider that the degree of transparency is determined not only by the size and concentration of nanocrystals of spinel and other minerals but also by the thickness of the cabochon or cut stone. In other words, a stone that appears translucent, for example, at 3 mm will become almost opaque at 8-10 mm. Consequently, as the transparency of the stone decreases, its color gradually changes (Fig. 9).

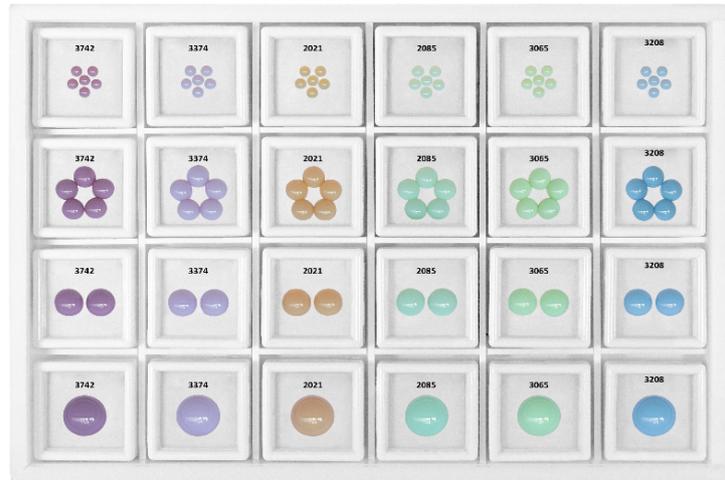


Figure 9. Translucent and Opaque SIAMITE®. The transparency of cabochons in a row: 3-6-8-12 mm is gradually reduced.

Thus, the SIAMITE® completely replicate the brightness, color, and density of the most widely used gemstones. In connection with this, a common question arises – how to distinguish faceted SIAMITE® stones from natural gemstones? This question is quite relevant, as many buyers of our stones have already turned to gemological laboratories in many countries worldwide and received incorrect conclusions – “glass”, “special glass”, “natural tourmaline”, “topaz” ...

Gemologists worldwide have a standard set of criteria for identifying gemstones: **color, refractive index, density, magnification, absorption spectrum, fluorescence**. However, the nature of SIAMITE® glass-ceramic makes classic gemological techniques less valuable or even useless. How to diagnose that SIAMITE® is a glass-ceramic material, not glass or a natural stone? This can be definitively done only through **X-Ray diffraction analysis (XRD)** (Fig.10).

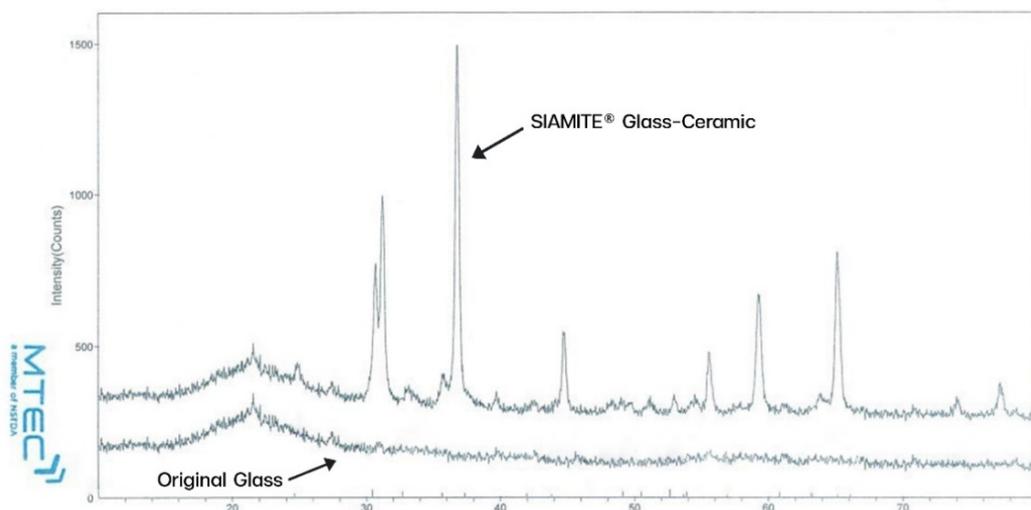


Figure 10. X-ray diffraction pattern of Emerald Green SIAMITE® glass-ceramic, confirming the presence of nanocrystals of spinel, rutile, and zirconium titanate. An X-ray diffraction pattern of the original glass is also shown for comparison. (analyzed in MTEC, Thailand)

XRD is the only laboratory technique that non-destructively and accurately obtains information, such as phase composition, crystal structure, and crystallite size of powder, solid, and liquid samples. In an X-ray diffractometer, different crystal phases yield distinct diffraction patterns. Phase identification can be performed by comparing patterns obtained from unknown samples to those in reference databases (ICDD - International Center of Diffraction Data). This process is akin to matching fingerprints in a crime investigation.

Glass – by definition, cannot contain any crystalline phases, even if it is "special," optical, or from prestigious brands. The distinction between SIAMITE® and glass is well illustrated in the attached **Figure 10** – the X-ray diffraction pattern of glass forms a smooth line, while in the emerald-like SIAMITE®, peaks of zinc spinel (gahnite), zirconium titanite, and others are clearly visible.

Naturally, this analysis reveals that SIAMITE® is not the natural mineral it imitates. **X-ray phase analysis is the most accurate and reliable tool for diagnosing any crystalline phase, from nano-sized to large crystals.** In our opinion, it should be included in the existing set of gemological methods for diagnosing gemstones and materials.

SIAMITE® is a green technology Lab Grown gemstone.

SIAMITE® is **lead-free** and compliant with the strictest regulatory industry norms and laws regarding the restriction or prohibition of certain substances. The production process is virtually waste-free and environmentally friendly - akin to glass production, **all low-quality or defective products are recycled** as additives to the production charge. Energy for production comes solely from electricity, resulting in **no carbon dioxide emissions into the atmosphere.**

As reserves of natural gems dwindle and their value increases, mining them causes irreparable damage to nature. Consumers are increasingly aware of this and are prioritizing environmentally friendly products. A notable jewelry brand recently switched from natural diamonds to lab-grown ones. While colorless SIAMITE® cannot compete with lab-grown diamonds, moissanite, or even cubic zirconia due to its relatively low refractive index, **colored SIAMITE® excels at imitating most colored gemstones, allowing us to preserve nature and avoid disfiguring it with quarries, trenches, and mines.**

Lab grown SIAMITE® glass-ceramic offers unique combinations of properties, including an extremely low thermal expansion coefficient, optical transparency or translucency, high hardness, fracture strength, toughness, and chemical durability. **Available in a wide range of colors, shapes, and sizes, and affordable to the masses,** SIAMITE® offers numerous creative design possibilities through various application techniques, making it ideal for the jewelry and accessories industries. This breakthrough gem reflection material undoubtedly has a promising and bright future!