

**SIAMITE<sup>®</sup>**

GEMSTONE REFLECTIONS

RHYMING **COLORS**

for  
**your**

**JEWELRY  
DESIGN**



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[www.formicagem.com](http://www.formicagem.com)

FORMICA (Th) Co., Ltd Jewelry Trade Center, 919/438 Silom Road Bangkok, Thailand. ISO Certified 9001|2015  
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.

## 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 20 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 Nancrystal®, 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 500 color options and wide ranges of saturation and shades, 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.

REFERENCE SHEET

COLOR RANGE	COLOR SATURATION	STANDARD SHAPES AND SIZES
GREEN YELLOW	EXL EXTRA LIGHT	<b>ROUND BRILLIANT CUT</b> MIN 0.80 X 0.80 INC 0.5 MAX 15.00 X 15.00 
GREEN	SL SUPER LIGHT	<b>SQUARE PRINCESS CUT</b> MIN 2.00 X 2.00 INC 0.25 MAX 12.00 X 12.00 
BLUE GREEN	VL VERY LIGHT	<b>DOMED ROSE CUT</b> MIN 3.00 X 3.00 INC 0.5 MAX 12.00 X 12.00 
BLUE	L/VL LIGHT VERY LIGHT	<b>TRILLION STEP CUT</b> MIN 3.00 X 3.00 INC 1.00 MAX 12.00 X 12.00 
VIOLET BLUE	L LIGHT	<b>CUSHION STEP CUT</b> MIN 3.00 X 3.00 INC 1.0 MAX 12.00 X 12.00 
VIOLET	M/L MEDIUM LIGHT	<b>OCTAGON STEP CUT</b> MIN 3.00 X 5.00 INC 1.00 MAX 12.00 X 16.00 
RED VIOLET	M MEDIUM	<b>BAGUETTE PRINCESS CUT</b> MIN 3.00 X 3.00 INC 1.0 MAX 12.00 X 12.00 
RED	D/M DARK MEDIUM	<b>HEART STEP CUT</b> MIN 3.00 X 3.00 INC 1.0 MAX 12.00 X 12.00 
ORANGE RED	D DARK	<b>TAPERED BAGUETTE CUT</b> MIN 2.00 X 3.00 INC 1.00 MAX 7.00 X 14.00 
ORANGE	VD/D VERY DARK DARK	<b>OVAL DIAMOND CUT</b> MIN 2.00 X 3.00 INC 1.00 MAX 12.00 X 16.00 
YELLOW ORANGE	VD VERY DARK	<b>MARQUISE DIAMOND CUT</b> MIN 1.50 X 3.00 INC 0.50 MAX 3.50 X 6.00 X 7.00 
YELLOW	SD SUPER DARK	<b>PEAR DIAMOND CUT</b> MIN 2.00 X 3.00 INC 1.00 MAX 12.00 X 16.00 

APPLICATION OPTIONS

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PROCESS	PICKLING	PLATING
<ul style="list-style-type: none"> <li>Lost wax casting</li> </ul>	<ul style="list-style-type: none"> <li>Vitrex pickle</li> <li>Sulphuric acid pickle</li> </ul>	<ul style="list-style-type: none"> <li>Gold coloring</li> <li>Silver coating</li> <li>Rhodium coating</li> <li>Gold plating</li> </ul>
SOLDERING	CLEANING	TREATMENT
<ul style="list-style-type: none"> <li>Bonding</li> <li>Hard soldering</li> <li>Soft soldering</li> </ul>	<ul style="list-style-type: none"> <li>Machine grinding and polishing</li> <li>Manual grinding and polishing</li> </ul>	<ul style="list-style-type: none"> <li>Citric acid</li> <li>Potassium hydroxide 10%</li> <li>Sulphuric acid 96% 80C</li> </ul>

DISCLOSURE OF CHEMICAL INGREDIENTS
<b>MAIN COMPONENTS</b> SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, TiO <sub>2</sub> , ZrO <sub>2</sub> , ZnO, CaO, Na <sub>2</sub> O, K <sub>2</sub> O, Li <sub>2</sub> O <b>HAZARDOUS SUBSTANCES</b> RADIOACTIVE ELEMENTS NONE ANTIMONY NONE BARIUM NONE CADMIUM NONE CHROMIUM NONE LEAD NONE MERCURY NONE SELENIUM NONE

	ID	REF	COLOR	SAT	PRICE REF
WHITE	No 1000	# 1000	Colorless	ExL	C
	No 1001	# 101	Extremely light yellow	ExL	C
ICE BLUE	No 1002	# 100/1	Slightly light blue	SL	C
	No 1003	# 100/2	Extremely light blue	ExL	C
	No 1004	# 100/3	Extremely light blue	ExL	C
PALE BLUE	No 1005	# 104/7	Slightly light blue	SL	B
PALE GREEN	No 1006	NEW	Extremely light green	ExL	B
	No 1007	NEW	Extremely light yellowish green	ExL	B
PALE YELLOW	No 1008	# 102/5	Extremely light yellow	ExL	B
	No 1009	# 177	Extremely light yellowish	ExL	B
CANARY YELLOW	No 1010	# 102sd	Dark/Medium orangish yellow	D/M	B
	No 1011	# 102vd	Medium orangish yellow	M	B
	No 1012	# 102	Medium/Light yellow	M/L	B
	No 1013	# 102/1	Medium/Light greenish yellow	M/L	B
	No 1014	# 102/2	Light greenish yellow	L	B
	No 1015	# 102/3	Very light greenish yellow	VL	B
	No 1016	# 102/4	Extremely light greenish yellow	ExL	B
CITRINE	No 1020	# 171	Dark orange yellow	D	B
	No 1021	# 172	Dark/Medium orange yellow	D/M	B
	No 1022	# 172/1	Medium orangish yellow	M	B
	No 1023	# 173	Medium yellow	M	B
	No 1024	# 173/1	Medium/Light greenish yellow	M/L	B
	No 1025	# 173/2	Light greenish yellow	L	B
YELLOW BERYL	No 1026	# 501	Dark greenish yellow	D	B
	No 1027	# 501/1	Medium/Light greenish yellow	M/L	B
	No 1028	# 501/2	Light greenish yellow	L	B
	No 1029	# 501/3	Very light greenish yellow	VL	B
	No 1030	# 501/4	Extremely light greenish yellow	ExL	B

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