

JEWELERS GEMS



Laboratory-Grown & Simulated Gemstones



A JEWELER'S REFERENCE GUIDE

PRICE: \$12

THE WONDER OF LANNYTE®...

brehtaking brilliance,
captivating color,
exceptional durability...
all with extraordinary value.

WONDER

Lannyte® is a registered trademark of The Lannyte Company and denotes a specific, superior collection of man-made gemstones. Raw crystals are created under conditions similar to that which produce natural gemstones including a painstaking process requiring exact heat and controlled cooling. Lannyte crystals are carefully scrutinized for beauty and physical properties. Only the finest gemstones are selected to be hand-cut by accomplished gem cutters who skillfully create every detail and facet.



UNCOMMON PERFECTION, INTRIGUING VALUE

The artistry of a hand-cut Lannyte® gemstone holds intrinsic allure not only for its irresistible beauty but also for its hardness and near flawless character. Unlike many natural gemstones, Lannyte® gems are remarkably durable with the added benefit of the absence of inclusions or flaws. The Lannyte® collection offers an excellent alternative to natural stones with genuine affordability for purchasers who desire both quality and beauty.



COMING TO TERMS WITH BEAUTY

There are entire books written with involved scientific explanations that are used to describe beauty and to calculate worth. However, two points are paramount in quantifying beauty: **Cut** and **Color**. The "cut" is a term that goes beyond shape and describes proportion and the personality of a stone. A cut influences color and affects a stone's interaction with light... it is both reflected from the surface of a gemstone as well as transmitted from a gemstone.

Three terms describe the effects of light on gemstones: **Transparency**, the result of light traveling through a stone that enables one to see through it; **Translucency**, light that is diffused and is transmitted from the stone giving the appearance of frosted glass; **Opaqueness**, the characteristic that represents an absence of light. It is the interplay of light that brings to life the beauty of a gemstone speaking to us with sparkle, movement, liveliness, brilliance and enchantment.

Noteworthy are the pre-eminent cut and color of every Lannyte® gemstone.



EXCELLENCE THAT HAS STOOD THE TEST OF TIME

Lannyte® has won the respect of the trade and is renowned for its guarantee offering a lifetime of satisfaction. We hope the following pages of this guide will help to acquaint you with the full selection of unforgettable beauty as well as facts and guarantees of Lannyte® gemstones... featured by the world's finest jewelers.

GUARANTEE

Guarantee: *If, following the purchase of the Lannyte gemstone, the Lannyte gemstone becomes cracked, chipped, discolored, or broken in the course of normal domestic use, The Lannyte Company will replace the Lannyte gemstone. The replacement will be at no cost or obligation to the buyer, upon delivery of the destroyed or damaged Lannyte gemstone, together with satisfactory proof of purchase or this guarantee form, to the Jeweler from whom the Lannyte gemstone was purchased. Notwithstanding anything to the contrary herein contained, The Lannyte Company shall not be liable for any consequential damages suffered by the buyer from any cause whatsoever. The parties agree that the replacement of the Lannyte gemstone will constitute the buyer's sole remedy and The Lannyte Company's sole obligation.*

COLOR REFERENCE

COLORS ARE APPROXIMATE AND WILL VARY WITH CUT AND SIZE.



BURMESE RED
Lab-Grown Ruby



OCTOBER ROSE
Lab-Grown Sapphire



MIDNIGHT RED
Simulated Garnet
Lab-Grown Ruby



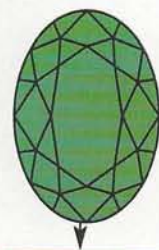
CEYLON BLUE
Lab-Grown Sapphire



TANAVYTE®
Simulated Tanzanite
Lab-Grown Garnet



CORANITE®
Simulated Tanzanite
Lab-Grown Sapphire



COLUMBIAN GREEN
Simulated Emerald
Lab-Grown Garnet



**LAB GROWN
EMERALD**



**NATURAL
EMERALD DOUBLET**



SPRING GREEN
Simulated Peridot



CHAMPAGNE
Simulated Diamond



CANARY
Simulated Diamond



AQUA
Simulated Aquamarine
or Topaz



**LAB-GROWN
ALEXANDRITE**



PADPARADSCHA
Lab-Grown Sapphire

The LannYTE Company currently produces 15 rich, vibrant colors plus white or colorless gemstones that will not fade or cloud. There will be additional shading variations within the colors depending on the cut and depth of the gem.

COLOR

The Federal Trade Commission (F.T.C.) states that the term "lab-grown" means the same as "natural – optically, physically and chemically"; "simulated" means "looks like".

The LannYTE Company uses lab-grown materials wherever possible. Simulated materials are used only when costs are prohibitive (as with diamonds), or when natural materials such as Tanzanite are too soft to be worn as a ring.

All Lannyte gemstones are manufactured in the U.S. or Europe and cut in Germany, Israel and New York. Our gems receive the same care and attention as a diamond or any other fine gem.

CUT

Faceted by top diamond cutters, the precise hand-cutting of Lannyte[®] gemstones parallels that of the world's finest gems. The result is superb fire and brilliance – gems of true beauty.



STEP CUT

Colored stones with an R.I. lower than 1.70 are usually cut with a step-cut pavilion (shown above) to emphasize color rather than sparkle.



ROUND BRILLIANT CUT
STANDARD FOR
SIMULATED DIAMONDS, LIGHT COLORS



STEP CUT
STANDARD FOR
COLORED STONES,
RUBIES, SAPPHIRES, EMERALDS



ROUND DOUBLE CUT
RECOMMENDED FOR
SIMULATED DIAMONDS, LIGHT COLORS



TRADITIONAL SQUARE CUT



RADIANT SQUARE CUT
RECOMMENDED FOR
SIMULATED DIAMONDS
with cut corners (as shown).
Available with sharp corners.



CUSHION CUT (CURVED SIDES)
RECOMMENDED FOR
SIMULATED DIAMONDS,
LIGHT COLORS



TRIANGLE
STANDARD FOR
SIMULATED DIAMONDS,
LIGHT COLORS, DARK COLORS
with or without cut corners



TRILLIANT (CURVED SIDES)
RECOMMENDED FOR
SIMULATED DIAMONDS,
LIGHT COLORS



HEART



BAGUETTE
SIMULATED DIAMONDS AVAILABLE IMMEDIATELY.
COLORED BAGUETTES AVAILABLE ON SPECIAL ORDER ONLY.



TAPERED BAGUETTE
SIMULATED DIAMONDS AVAILABLE IMMEDIATELY.
COLORED BAGUETTES AVAILABLE ON SPECIAL ORDER ONLY.

Colorless stones are displayed here to clearly show the faceting.



TRADITIONAL EMERALD CUT



RADIANT EMERALD CUT
RECOMMENDED FOR
SIMULATED DIAMONDS,
LIGHT COLORS



**CUSHION EMERALD CUT
(CURVED SIDES)**
RECOMMENDED FOR
SIMULATED DIAMONDS,
LIGHT COLORS



OVAL CUT
STANDARD FOR
SIMULATED DIAMONDS,
LIGHT COLORS, DARK COLORS



RADIANT OVAL CUT
RECOMMENDED FOR
SIMULATED DIAMONDS,
LIGHT COLORS



PEAR



**MARQUISE
NAVETTE**



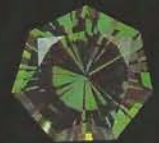
SCISSOR CUT



HEXAGON



OCTAGON



SEPTAGON

The septagon cut (shown above) was custom-cut for a jewelry designer who needed an asymmetrical stone for a special ring.

There are some 20 standard shapes and cuts. Custom cuts are available as a special order and at no extra charge. If the cutters can cut it, The Lannyte Company will supply it.

SHAPE

Lannyte® gems are calibrated and are available from as small as 1.0mm; all gemstones from 3.5mm and larger will have polished girdles.

CUTTING STANDARDS

In the gemstone industry there are certain standards:

1. Our instructions to cutters always contain the statement "Cut for maximum beauty, not for maximum weight".
2. Within the above constraint, Radiant or Princess cuts are only recommended when the refractive index (R.I.) is above 1.75 (i.e., diamond simulations and YAG derivatives/variations).
3. The pavilion cutting depends on the R.I. as well. As a standard, we use diamond type faceting for the simulated diamonds and step-cut faceting for the rest. The exception is the natural emerald doublet, which we cut the same way in which we would cut a natural stone.

STANDARDS

SIZES

We have cut and polished stones as large as 200 - 300 carats and as small as 1.00mm. If we are advised as to dimensions in millimeters (length, width, diameter, height of crown, and depth of pavilion), we can produce the required gemstone accurately (generally accepted as being within 1/20 of a millimeter on custom cutting and within 1/10 of a millimeter on commercial cutting).

SHAPE & SIZE	NATURAL DIAMOND	ALL COLORS SIMULATED DIAMOND	LAB-GROWN RUBY SAPPHIRE ROSE CORANITE	SIMULATED EMERALDS & TANAVYTE	LAB-GROWN CHRYSOBERYL ALEXANDRITE	LAB-GROWN EMERALDS & EMERALD DOUBLET
Millimeter	Av.ct.wt.	Av.ct.wt.	Av.ct.wt.	Av.ct.wt.	Av.ct.wt.	Av.ct.wt.
ROUND						
1.00	0.01	0.01	0.01	0.01	0.01	0.01
1.25	0.01	0.02	0.02	0.02	0.01	0.01
1.50	0.02	0.03	0.02	0.03	0.02	0.02
1.75	0.02	0.04	0.03	0.04	0.03	0.02
2.00	0.03	0.06	0.05	0.06	0.04	0.03
2.25	0.04	0.08	0.06	0.07	0.06	0.05
2.50	0.06	0.10	0.08	0.09	0.07	0.06
2.75	0.08	0.15	0.12	0.14	0.11	0.09
3.00	0.10	0.20	0.16	0.19	0.15	0.12
3.25	0.13	0.24	0.19	0.22	0.18	0.14
3.50	0.16	0.29	0.23	0.27	0.22	0.17
3.75	0.18	0.36	0.28	0.34	0.27	0.21
4.00	0.23	0.44	0.34	0.41	0.33	0.26
4.50	0.33	0.64	0.50	0.60	0.48	0.37
5.00	0.45	0.85	0.66	0.79	0.63	0.49
5.50	0.65	1.06	0.83	0.99	0.79	0.62
6.00	0.78	1.41	1.10	1.32	1.05	0.82
6.50	1.00	1.75	1.37	1.64	1.31	1.02
7.00	1.25	2.34	1.83	2.19	1.75	1.36
8.00	2.00	3.47	2.71	3.24	2.59	2.02
9.00	2.50	4.59	3.58	4.29	3.43	2.67
10.00	3.80	6.48	5.05	6.06	4.84	3.77
12.00	6.50	11.41	8.90	10.66	8.51	6.63
14.00	7.78	14.00	10.92	13.08	10.45	8.14
TRIANGLE						
3.00	0.10	0.18	0.14	0.17	0.13	0.10
3.50	0.15	0.26	0.20	0.24	0.19	0.15
4.00	0.26	0.46	0.36	0.43	0.34	0.27
5.00	0.44	0.79	0.62	0.74	0.59	0.46
6.00	0.78	1.38	1.08	1.29	1.03	0.80
7.00	1.10	1.95	1.52	1.82	1.46	1.13
8.00	1.72	3.06	2.39	2.86	2.28	1.78
9.00	1.97	3.51	2.74	3.28	2.62	2.04
10.00	2.83	5.03	3.92	4.70	3.75	2.92
11.00	3.78	6.73	5.25	6.29	5.02	3.91
12.00	5.06	9.00	7.02	8.41	6.72	5.23
13.00	6.18	11.00	8.58	10.28	8.21	6.40
14.00	7.87	14.00	10.92	13.08	10.45	8.14
15.00	9.55	17.00	13.26	15.89	12.69	9.88
SQUARE						
2.00	0.05	0.09	0.07	0.08	0.07	0.09
2.50	0.10	0.18	0.14	0.16	0.14	0.18
3.00	0.15	0.27	0.22	0.25	0.22	0.28
3.50	0.25	0.43	0.34	0.39	0.34	0.44
4.00	0.39	0.68	0.55	0.62	0.55	0.70
5.00	0.67	1.20	0.94	1.12	0.90	0.70
6.00	1.12	2.00	1.56	1.87	1.49	1.16
7.00	1.70	3.03	2.36	2.83	2.26	1.76
8.00	2.53	4.50	3.51	4.21	3.36	2.62
9.00	3.76	6.69	5.22	6.25	4.99	3.89
10.00	5.43	9.66	7.53	9.03	7.21	5.62
11.00	6.74	12.00	9.36	11.21	8.96	6.98
12.00	8.43	15.00	11.70	14.02	11.19	8.72
13.00	10.11	18.00	14.04	16.82	13.43	10.47
14.00	12.08	21.50	16.77	20.09	16.04	12.50
15.00	14.04	25.00	19.50	23.36	18.66	14.53

SHAPE & SIZE	NATURAL DIAMOND	ALL COLORS SIMULATED DIAMOND	LAB-GROWN RUBY SAPPHIRE ROSE CORANITE	SIMULATED EMERALDS & TANAVYTE	LAB-GROWN CHRYSOBERYL ALEXANDRITE	LAB-GROWN EMERALDS & EMERALD DOUBLET
Millimeter	Av.ct.wt.	Av.ct.wt.	Av.ct.wt.	Av.ct.wt.	Av.ct.wt.	Av.ct.wt.
HEART						
5.00	0.39	0.70	0.55	0.65	0.52	0.41
6.00	0.69	1.22	0.95	1.14	0.91	0.71
7.00	1.11	1.97	1.54	1.84	1.47	1.15
8.00	1.56	2.78	2.17	2.60	2.07	1.62
9.00	2.48	4.41	3.44	4.12	3.29	2.56
10.00	3.17	5.65	4.41	5.28	4.22	3.28
11.00	3.82	6.80	5.30	6.36	5.07	3.95
12.00	4.97	8.84	6.90	8.26	6.60	5.14
13.00	6.18	11.00	8.58	10.28	8.21	6.40
14.00	7.87	14.00	10.92	13.08	10.45	8.14
15.00	9.83	17.50	13.65	16.36	13.06	10.17
OVAL						
5x3	0.21	0.38	0.30	0.36	0.28	0.22
6x4	0.43	0.76	0.59	0.71	0.57	0.44
7x5	0.68	1.21	0.94	1.13	0.90	0.70
8x6	1.11	1.97	1.54	1.84	1.47	1.15
9x7	1.56	2.78	2.17	2.60	2.07	1.62
10x8	2.30	4.10	3.20	3.83	3.06	2.38
11x9	3.07	5.47	4.27	5.11	4.08	3.18
12x10	4.63	8.25	6.44	7.71	6.16	4.80
13x11	5.31	9.46	7.38	8.84	7.06	5.50
14x12	6.97	12.41	9.68	11.60	9.26	7.22
PEAR						
6x4	0.35	.61	0.49	0.58	0.46	0.37
7x5	0.66	1.15	0.92	1.09	0.87	0.69
8x5	0.77	1.35	1.08	1.28	1.03	0.81
9x6	1.26	2.21	1.77	2.10	1.68	1.33
10x7	1.61	2.86	2.23	2.67	2.13	1.66
12x8	2.57	4.57	3.56	4.26	3.41	2.66
13x9	3.17	5.65	4.41	5.27	4.22	3.28
14x9	3.93	7.00	5.46	6.53	5.22	4.07
15x9	4.63	8.25	6.44	7.69	6.16	4.80
EMERALD						
6x4	0.62	1.11	0.87	1.04	0.83	0.65
7x5	0.96	1.70	1.33	1.59	1.27	0.99
8x6	1.57	2.80	2.18	2.62	2.09	1.63
9x7	2.20	3.91	3.05	3.65	2.92	2.27
10x8	3.68	6.55	5.11	6.12	4.89	3.81
11x9	4.62	8.23	6.42	7.69	6.14	4.78
12x10	6.32	11.25	8.78	10.51	8.40	6.54
13x11	8.10	14.42	11.25	13.48	10.76	8.38
14x12	10.44	18.58	14.49	17.36	13.87	10.80
MARQUISE						
3x1.5	0.03	0.05	0.04	0.05	0.04	0.03
4x2	0.07	0.13	0.10	0.12	0.10	0.08
5x2.5	0.12	0.21	0.16	0.20	0.16	0.12
6x3	0.21	0.37	0.29	0.35	0.28	0.22
7x3.5	0.31	0.56	0.44	0.52	0.42	0.33
8x4	0.46	0.82	0.64	0.77	0.61	0.48
9x4.5	0.67	1.19	0.93	1.11	0.89	0.69
10x5	0.78	1.38	1.08	1.29	1.03	0.80
11x5.5	1.07	1.91	1.49	1.79	1.43	1.11
12x6	1.50	2.67	2.08	2.50	1.99	1.55
14x7	2.47	4.40	3.43	4.11	3.28	2.56
15x7.5	3.03	5.40	4.21	5.05	4.03	3.14
16x8	3.65	6.50	5.07	6.07	4.85	3.78

CUSTOM CUTTING

We have a number of jewelry designers as customers who have become accustomed to designing their own stone to create a new look. We also have customers in estate jewelry for whom we create copies to replace diamonds and other gemstones of large value.

Problems can arise concerning size. It is not always possible to obtain a boule large enough to create a 50mm diameter. Also, as the size increases, the color appears darker. Conversely, as the size decreases, the color appears lighter. Our experts will be able to help you with any questions you may have.

STANDARDS

WEIGHT COMPARISONS

Weight comparison by size and shape is not normally charted due to the many possible variations. Each material used has a different specific gravity. Two stones of identical measurements will weigh differently if they are made from different materials. For example, a block of gold measuring 25 x 25 x 25mm would weigh about 50 times more than a tightly compressed block of feathers measuring the same 25 x 25 x 25.

In these charts, we aim to give you approximate weights which, when used in conjunction with our wholesale price list, will enable you to approximate your cost on any stone.

The following can affect the chart:

1. Thickness of girdle
2. Depth of pavilion
3. Height of crown
4. Additional faceting such as Radiant or Princess facettings

COMMITMENT



Laboratory-Grown & Simulated Gemstones
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It is not enough to produce a product which the public wishes to buy... it is also necessary to support the product with consistency in both service and quality upon which a consumer can rely.

In any organization, quality control and service are dependent upon dedication and commitment by all of an organization's associates. Dedication is created through leadership that begins at the top.

As President and C.E.O. of the Lannyte Company, I am proud to confirm my commitment to quality and service which will continue to be the primary goals of our Company's philosophy.

Robert Silverman

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