

*Color change:*



bluish-teal reddish-purple

# LAB-GROWN ALEXANDRITE

BIRTHSTONE FOR JUNE  
 ULTIMATE COLOR CHANGE GEM  
 45TH & 55TH ANNIVERSARY GEM  
 SYMBOL FOR ADVENTURE & OPEN TO CHANGE



*Round*

1.5mm	0.02ct
1.75mm	0.03ct
2.0mm	0.04ct
2.25mm	0.06ct
2.5mm	0.08ct
3.0mm	0.13ct
3.5mm	0.21ct
4.0mm	0.32ct
4.5mm	0.45ct
5.0mm	0.62ct
5.5mm	0.82ct
6.0mm	1.06ct
6.5mm	1.35ct
7.0mm	1.69ct
7.5mm	2.08ct
8.0mm	2.52ct
8.5mm	3.02ct
9.0mm	3.59ct
10.0mm	4.92ct



*Antique Cushion*

4.0mm	0.41ct
6x4mm	0.62ct
5.0mm	0.80ct
7x5mm	1.12ct
6.0mm	1.39ct
6.5mm	1.77ct
8x6mm	1.85ct
7.0mm	2.20ct
9x7mm	2.83ct
8.0mm	3.29ct
10x8mm	4.11ct
9.0mm	4.69ct
11x9mm	5.73ct
12x10mm	7.71ct



*Oval*

5x3mm	0.26ct
6x4mm	0.55ct
6.5x4.5mm	0.76ct
7x5mm	1.01ct
8x6mm	1.65ct
9x7mm	2.53ct
10x8mm	3.68ct
11x9mm	5.12ct
12x10mm	6.89ct



*Pear*

5x3mm	0.25ct
6x4mm	0.53ct
7x5mm	0.96ct
8x5mm	1.09ct
9x6mm	1.77ct
10x7mm	2.68ct
11x9mm	4.87ct
12x8mm	4.20ct



*Emerald*

5x3mm	0.33ct
6x4mm	0.71ct
5.0mm	0.92ct
7x5mm	1.29ct
7.5x5.5mm	1.68ct
8x6mm	2.13ct
9x7mm	3.26ct
10x8mm	4.73ct
11x9mm	6.58ct
12x10mm	8.86ct



*Radiant*

5.0mm	0.89ct
7x5mm	1.24ct
6.0mm	1.54ct
8x6mm	2.05ct
7.0mm	2.44ct
9x7mm	3.14ct
8.0mm	3.64ct
10x8mm	4.55ct

# LAB-GROWN ALEXANDRITE



*Princess*

2.0mm	0.05ct
2.5mm	0.11ct
3.0mm	0.18ct
3.5mm	0.29ct
4.0mm	0.44ct
5.0mm	0.85ct
5.5mm	1.14ct
6.0mm	1.48ct
6.5mm	1.88ct
7.0mm	2.35ct
8.0mm	3.50ct
9.0mm	4.99ct



*Square*

2.0mm	0.07ct
2.5mm	0.13ct
3.0mm	0.22ct
3.5mm	0.35ct
4.0mm	0.53ct
5.0mm	1.03ct
5.5mm	1.37ct
6.0mm	1.77ct
6.5mm	2.25ct
7.0mm	2.81ct
8.0mm	4.20ct



*Heart*

4.0mm	0.34ct
5.0mm	0.67ct
6.0mm	1.15ct
7.0mm	1.83ct
8.0mm	2.73ct



*Baguette*

4x2mm	0.13ct
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*Trillion*

3.0mm	0.13ct
3.5mm	0.21ct
4.0mm	0.32ct
5.0mm	0.62ct
6.0mm	1.06ct
7.0mm	1.69ct
8.0mm	2.52ct
9.0mm	3.59ct



*Marquise*

4x2mm	0.08ct
5x3mm	0.23ct
6x3mm	0.28ct
7x3.5mm	0.45ct
8x4mm	0.67ct
9x4.5mm	0.95ct
10x5mm	1.30ct
12x6mm	2.25ct



*Teal by day...*

## ABOUT CHATHAM'S LAB-GROWN ALEXANDRITE

Alexandrites are a rare variety of the mineral chrysoberyl that changes color from bluish-green in daylight to purplish-red in incandescent light.

Why do alexandrites change color? Alexandrites are colored by chromium, the amazing trace element that makes rubies red and emeralds green. In chrysoberyl, chromium causes a broad absorption band in the middle of the spectrum around 580 nanometers. That leaves two transmission windows open - one in the red part of the spectrum, the other in the green. In light that is rich in red wavelengths, like incandescent light, candlelight or firelight, the gem appears red. In light that has more blue, like daylight or fluorescent light, the gem appears green. It's science but it looks like magic!