

December 24, 2025



Cut 8X

Growth Method	CVD
1. Chemical Vapor Deposition (CVD)	1. Chemical Vapor Deposition (CVD)
2. Physical Vapor Deposition (PVD)	2. Physical Vapor Deposition (PVD)
3. Sol-gel process	3. Sol-gel process
4. Hydrothermal synthesis	4. Hydrothermal synthesis
5. Electrochemical deposition	5. Electrochemical deposition
6. Atomic Layer Deposition (ALD)	6. Atomic Layer Deposition (ALD)
7. Sputtering	7. Sputtering
8. Evaporation	8. Evaporation
9. Langmuir-Blodgett (LB) method	9. Langmuir-Blodgett (LB) method
10. Spin coating	10. Spin coating
11. Dip coating	11. Dip coating
12. Inkjet printing	12. Inkjet printing
13. Spray coating	13. Spray coating
14. Layer-by-layer assembly	14. Layer-by-layer assembly
15. Self-assembly	15. Self-assembly
16. Molecular beam epitaxy (MBE)	16. Molecular beam epitaxy (MBE)
17. Pulsed laser deposition (PLD)	17. Pulsed laser deposition (PLD)
18. Solvothermal synthesis	18. Solvothermal synthesis
19. Electroless plating	19. Electroless plating
20. Thermal evaporation	20. Thermal evaporation
21. Chemical bath deposition (CBD)	21. Chemical bath deposition (CBD)
22. Atomic layer etching (ALE)	22. Atomic layer etching (ALE)
23. Sol-gel spin coating	23. Sol-gel spin coating
24. Langmuir-Blodgett (LB) method	24. Langmuir-Blodgett (LB) method
25. Spin coating	25. Spin coating
26. Dip coating	26. Dip coating
27. Inkjet printing	27. Inkjet printing
28. Spray coating	28. Spray coating
29. Layer-by-layer assembly	29. Layer-by-layer assembly
30. Self-assembly	30. Self-assembly
31. Molecular beam epitaxy (MBE)	31. Molecular beam epitaxy (MBE)
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34. Electroless plating	34. Electroless plating
35. Thermal evaporation	35. Thermal evaporation
36. Chemical bath deposition (CBD)	36. Chemical bath deposition (CBD)
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39. Langmuir-Blodgett (LB) method	39. Langmuir-Blodgett (LB) method
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49. Electroless plating	49. Electroless plating
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79. Electroless plating	79. Electroless plating
80. Thermal evaporation	80. Thermal evaporation
81. Chemical bath deposition (CBD)	81. Chemical bath deposition (CBD)
82. Atomic layer etching (ALE)	82. Atomic layer etching (ALE)
83. Sol-gel spin coating	83. Sol-gel spin coating
84. Langmuir-Blodgett (LB) method	84. Langmuir-Blodgett (LB) method
85. Spin coating	85. Spin coating
86. Dip coating	86. Dip coating
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94. Electroless plating	94. Electroless plating
95. Thermal evaporation	95. Thermal evaporation
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101. Dip coating	101. Dip coating
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111. Chemical bath deposition (CBD)	111. Chemical bath deposition (CBD)
112. Atomic layer etching (ALE)	112. Atomic layer etching (ALE)
113. Sol-gel spin coating	113. Sol-gel spin coating
114. Langmuir-Blodgett (LB) method	114. Langmuir-Blodgett (LB) method
115. Spin coating	115. Spin coating
116. Dip coating	116. Dip coating
117. Inkjet printing	117. Inkjet printing
118. Spray coating	118. Spray coating
119. Layer-by-layer assembly	119. Layer-by-layer

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Ultimate Diamond Cut Grade



P Poor **F** Fair **G** Good **VG** Very Good **EX** Excellent

Technical drawing of a diamond showing its proportions and dimensions. The drawing includes the following measurements:

- Top width: 9.59mm
- Top width (excluding girdle): 5.89mm 61%
- Top width angle: 35.5°
- Left height: 0.44mm 4.6%
- Left height: 5.81mm 60.5%
- Left angle: 40.0°
- Right height: 1.30mm 13.5%
- Right height: 4.07mm 42.5%
- Bottom width: 0.03mm 0.3%

DIAMOND SHAPES



CARAT WEIGHT SIZES

Carat Weight	2.50	2.00	1.50	1.00	0.75	0.50
Approx. Size						
Diameter	8.60mm	8.00mm	7.30mm	6.40mm	5.80mm	5.10mm

DIAMOND CLARITY GRADING SCALE

FL	IF	VVS1	VVS2	VS1	VS2	S11	S12	I1	I2	I3
FLAWLESS - INTERNALLY FL.		VERY VERY SLIGHTLY		INCLUDED/VERY SLIGHTLY INCLUDED		SLIGHTLY INCLUDED				INCLUDED/PIQUE

DIAMOND COLOR GRADING SCALE



D - Z DIAMOND COLOR GRADING SCALE

DIAMOND FLUORESCENCE GRADING SCALE



DIAMOND POLISH & SYMMETRY GRADING SCALE

EXCELLENT	VERY GOOD	GOOD	FAIR	POOR
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BRILLIANT CUT DIAGRAM



BUY WITH
CONFIDENCE

GCAL BY SARINE™
4Cs GRADING GUARANTEE

The GCAL by Sarine™ philosophy is simple: we believe consumers should feel confident about their lab grown diamond purchase, in the same way we believe experts should be accountable and stand behind their work.

This is why your lab grown diamond is protected by a zero tolerance, money-backed grading guarantee. You should know that the GCAL by Sarine™ 4Cs Grading Certificate is the only 4Cs grading certificate in the world that comes with a guarantee that ensures the accuracy of the certified lab grown diamonds' weight and quality grades. If the carat weight or any of the cut, color, or clarity grades provided in this GCAL by Sarine™ 4Cs Grading Certificate is lower than the weight or quality grade of your certified lab grown diamond, GCAL by Sarine™ will reimburse you the difference between what you paid for the lab grown diamond and the current fair value of an equivalent lab grown diamond in the market in which it was purchased, pursuant to the newly established grades. Kindly see additional details, including the limitations of the guarantee, at [GCALUSA.com](https://www.gcalusa.com).



MISSION STATEMENT

To provide the most accurate and consistent gemological grading, with uncompromising integrity and unparalleled customer service.



GEMPRINT®

Having a traceable, unique “fingerprint” of your lab grown diamond adds future protection to your investment, as well as peace of mind. GCAL by Sarine™ records the distinctive Gemprint of every diamond we certify. This patented technology for positive identification is recognized worldwide as forensic evidence and identification. Register your lab grown diamond at [GEMPRINT.com](https://www.gemprint.com)

CERTIFICATE VERIFICATION

You can verify the authenticity of this certificate by entering your GCAL by Sarine™ Certificate Number at [GCALUSA.com](https://www.gcalusa.com). You can also download a complimentary digital copy of this document to send to your insurance company.



GUARANTEED
CERTIFICATE



LAB GROWN



8X® is the highest achievement in precision diamond cutting. The **GCAL 8X** Ultimate Diamond Cut Grading System encompasses all aspects of diamond CUT quality assessment. Your lab Grown diamond has achieved grades of Excellent in all eight aspects of CUT quality assessment. As a result, this lab grown diamond is recognized for its extraordinary brilliance and beauty.

PHYSICAL EXCELLENCE

The first three of the 8X grading factors analyze the exactness of the physical surface, the facet shapes, as well as the angles. This includes the Polish, External Symmetry and Proportions.

Decades of the meticulous mathematical calculations have determined the narrow proportions ranges required to produce superior cut diamonds. Each shape has been studies individually to find the most aesthetically pleasing parameters. Some of the factors considered are listed below.

To view the proportions specifications for each shape, please visit our website [GCALUSA.COM](https://www.gcalusa.com)

Table %	Lower Girdle facet Length
Depth %	Star Length
Crown Angle/Height	Girdle Thickness
Pavilion Angle/Height	Culet Size

LIGHT PERFORMANCE EXCELLENCE

The next three of the 8X grading factors are Brilliance, Fire and Scintillation, which analyze the light handling ability of your lab grown diamond. The combination of these factors is the essence of what makes any diamond visibly shine, dance and sparkle from across a room. Fire and Scintillation are graded while the diamond is in motion and interacting with the light. View the Fire and Scintillation videos of this lab grown diamond at the [GCALUSA.com](https://www.gcalusa.com) or by scanning the QR code on this certificate.

OPTICAL EXCELLENCE

The last two 8X grading factors consider optical excellence. These factors scrutinize the craftsmanship, the precise alignment of the crown and the pavilion facets, the shape outline, and the length to width ratio, ensuring the lab grown diamond achieves aesthetic perfection.

Grading scales for each of the 8X grading factors can be viewed at [GCALUSA.com](https://www.gcalusa.com)

Independently Graded and Guaranteed by GCAL by Sarine™