

April 23, 2026



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. Langmuir-Blodgett (LB) method	7. Langmuir-Blodgett (LB) method
8. Spin coating	8. Spin coating
9. Dip coating	9. Dip coating
10. Inkjet printing	10. Inkjet printing
11. Spray coating	11. Spray coating
12. Electroless plating	12. Electroless plating
13. Thermal evaporation	13. Thermal evaporation
14. Sputtering	14. Sputtering
15. Pulsed laser deposition (PLD)	15. Pulsed laser deposition (PLD)
16. Molecular beam epitaxy (MBE)	16. Molecular beam epitaxy (MBE)
17. Metal-organic chemical vapor deposition (MOCVD)	17. Metal-organic chemical vapor deposition (MOCVD)
18. Solvothermal synthesis	18. Solvothermal synthesis
19. Microwave-assisted synthesis	19. Microwave-assisted synthesis
20. Solvothermal synthesis	20. Solvothermal synthesis
21. Hydrothermal synthesis	21. Hydrothermal synthesis
22. Sol-gel process	22. Sol-gel process
23. Electrochemical deposition	23. Electrochemical deposition
24. Atomic Layer Deposition (ALD)	24. Atomic Layer Deposition (ALD)
25. Langmuir-Blodgett (LB) method	25. Langmuir-Blodgett (LB) method
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28. Inkjet printing	28. Inkjet printing
29. Spray coating	29. Spray coating
30. Electroless plating	30. Electroless plating
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32. Sputtering	32. Sputtering
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37. Microwave-assisted synthesis	37. Microwave-assisted synthesis
38. Solvothermal synthesis	38. Solvothermal synthesis
39. Hydrothermal synthesis	39. Hydrothermal synthesis
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41. Electrochemical deposition	41. Electrochemical deposition
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47. Spray coating	47. Spray coating
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49. Thermal evaporation	49. Thermal evaporation
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51. Pulsed laser deposition (PLD)	51. Pulsed laser deposition (PLD)
52. Molecular beam epitaxy (MBE)	52. Molecular beam epitaxy (MBE)
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73. Microwave-assisted synthesis	73. Microwave-assisted synthesis
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79. Langmuir-Blodgett (LB) method	79. Langmuir-Blodgett (LB) method
80. Spin coating	80. Spin coating
81. Dip coating	81. Dip coating
82. Inkjet printing	82. Inkjet printing
83. Spray coating	83. Spray coating
84. Electroless plating	84. Electroless plating
85. Thermal evaporation	85. Thermal evaporation
86. Sputtering	86. Sputtering
87. Pulsed laser deposition (PLD)	87. Pulsed laser deposition (PLD)
88. Molecular beam epitaxy (MBE)	88. Molecular beam epitaxy (MBE)
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90. Solvothermal synthesis	90. Solvothermal synthesis
91. Microwave-assisted synthesis	91. Microwave-assisted synthesis
92. Solvothermal synthesis	92. Solvothermal synthesis
93. Hydrothermal synthesis	93. Hydrothermal synthesis
94. Sol-gel process	94. Sol-gel process
95. Electrochemical deposition	95. Electrochemical deposition
96. Atomic Layer Deposition (ALD)	96. Atomic Layer Deposition (ALD)
97. Langmuir-Blodgett (LB) method	97. Langmuir-Blodgett (LB) method
98. Spin coating	98. Spin coating
99. Dip coating	99. Dip coating
100. Inkjet printing	100. Inkjet printing
101. Spray coating	101. Spray coating
102. Electroless plating	102. Electroless plating
103. Thermal evaporation	103. Thermal evaporation
104. Sputtering	104. Sputtering
105. Pulsed laser deposition (PLD)	105. Pulsed laser deposition (PLD)
106. Molecular beam epitaxy (MBE)	106. Molecular beam epitaxy (MBE)
107. Metal-organic chemical vapor deposition (MOCVD)	107. Metal-organic chemical vapor deposition (MOCVD)
108. Solvothermal synthesis	108. Solvothermal synthesis
109. Microwave-assisted synthesis	109. Microwave-assisted synthesis
110. Solvothermal synthesis	110. Solvothermal synthesis
111. Hydrothermal synthesis	111. Hydrothermal synthesis
112. Sol-gel process	112. Sol-gel process
113. Electrochemical deposition	113. Electrochemical deposition
114. Atomic Layer Deposition (ALD)	114. Atomic Layer Deposition (ALD)
115. Langmuir-Blodgett (LB) method	115. Langmuir-Blodgett (LB) method
116. Spin coating	116. Spin coating
117. Dip coating	117. Dip coating
118. Inkjet printing	118. Inkjet printing
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P Poor **F** Fair **G** Good **VG** Very Good **EX** Excellent

Technical drawing of a pear-shaped diamond showing dimensions and percentages:

- Top width: 7.24mm
- Top width (excluding shoulders): 4.54mm 63%
- Top shoulder width: 34.0°
- Top shoulder height: 0.25mm 3.5%
- Top shoulder depth: 0.91mm 12.5%
- Body height: 4.82mm 66.6%
- Body depth: 3.66mm 50.5%
- Point angle: 37.6°
- Point depth: 0.02mm 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.



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

CERTIFICATE VERIFICATION

You can verify the authenticity of this certificate by entering your GCAL by Sarine™ Certificate Number at 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 meticulous mathematical calculations have determined the narrow proportion ranges required to produce superior cut diamonds. Each shape has been studied 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

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 light. View the Fire and Scintillation videos of this lab grown diamond at 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 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

Independently Graded and Guaranteed by GCAL by Sarine™