

DIAMOND (INDUSTRIAL)¹

(Data in million carats unless otherwise specified)

Domestic Production and Use: In 2025, total domestic primary production of manufactured industrial diamond bort, grit, and dust and powder was estimated to be 160 million carats with a value of \$52 million, compared with 159 million carats with a value of \$52 million in 2024. No industrial diamond stone was produced domestically. One company with facilities in Florida and Ohio and a second company in Pennsylvania accounted for all domestic primary production. At least four companies produced polycrystalline diamond from diamond powder. At least two companies recovered used industrial diamond material from used diamond drill bits, diamond tools, and other diamond-containing wastes for recycling. The major consuming sectors of industrial diamond are computer chip production; construction; drilling for minerals, natural gas, and oil; machinery manufacturing; stone cutting and polishing; and transportation (infrastructure and vehicles). Highway building, milling, and repair and stone cutting consumed most of the industrial diamond stone. About 97% of U.S. industrial diamond apparent consumption was synthetic industrial diamond because its quality can be controlled, and its properties can be customized.

Salient Statistics—United States:	2021	2022	2023	2024	2025^e
Bort, grit, and dust and powder; natural and synthetic:					
Production:					
Manufactured diamond ^e	132	150	152	159	160
Secondary	1.20	14.4	14.0	14.9	15
Imports for consumption	261	303	264	238	170
Exports	99.1	94.0	74.0	73.3	72
Consumption, apparent ²	294	374	356	334	270
Price, unit value of imports, dollars per carat	0.18	0.19	0.16	0.19	0.21
Net import reliance ³ as a percentage of apparent consumption	55	56	53	49	35
Stones, natural and synthetic:					
Production:					
Manufactured diamond ^e	—	—	—	—	—
Secondary	0.08	0.08	0.08	0.08	0.08
Imports for consumption	0.33	0.79	0.38	0.39	0.35
Exports	—	(⁴)	(⁴)	(⁴)	(⁴)
Consumption, apparent ²	0.41	0.86	0.45	0.46	0.43
Price, unit value of imports, dollars per carat	13.00	8.40	14.20	11.30	6.70
Net import reliance ³ as a percentage of apparent consumption	80	91	83	84	81

Recycling: In 2025, the amount of diamond bort, grit, and dust and powder recycled was estimated to be 15 million carats with an estimated value of \$540,000. An estimated 75,000 carats of diamond stone was recycled with an estimated value of \$110,000.

Import Sources (2021–24): Bort, grit, and dust and powder; natural and synthetic: China,⁵ 77%; Republic of Korea, 8%; Ireland, 5%; and other, 10%. Stones, primarily natural: India, 49%; South Africa, 26%; Russia, 8%; Botswana, 5%; and other, 12%.

Tariff:	Item	Number	Normal Trade Relations 12–31–25
Industrial Miners' diamonds:			
Carbonados	7102.21.1010		Free.
Other	7102.21.1020		Free.
Industrial diamonds:			
Simply sawn, cleaved, or bruted	7102.21.3000		Free.
Not worked	7102.21.4000		Free.
Grit or dust and powder of natural diamonds:			
80 mesh or finer	7105.10.0011		Free.
Over 80 mesh	7105.10.0015		Free.
Grit or dust and powder of synthetic diamonds:			
Coated with metal	7105.10.0020		Free.
Not coated with metal, 80 mesh or finer	7105.10.0030		Free.
Not coated with metal, over 80 mesh	7105.10.0050		Free.

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Depletion Allowance: 14% (domestic and foreign).

Government Stockpile: None.

Events, Trends, and Issues: Most natural industrial diamond is produced as a byproduct of mining gem-quality diamond. Global natural industrial diamond production was essentially the same in 2025 as in 2024. Russia, the leading country in the production of natural industrial diamond, produced 16 million carats or 42% of total world production, followed by Congo (Kinshasa), 7 million carats (18%); Botswana, 5 million carats (14%); Zimbabwe, 5 million carats (13%); and South Africa, 3 million carats (8%). These five countries produced 95% of the world's natural industrial diamond. In recent years, mines have closed, and output has been lower as mines approach the ends of their lives. The world's largest diamond mines have matured and are past their peak production levels, and several of the largest diamond mines are expected to close in the near future. As these mines are depleted, global production is expected to continue declining in quantity.

In 2025, U.S. synthetic-industrial-diamond producers did not manufacture any diamond stone. The combined apparent consumption of all types of industrial diamond decreased by about 20% in quantity and by 17% in value from that in 2024. During 2025, imports of all types of natural and synthetic industrial diamond imports decreased by 30% from that in 2024. In 2025, China was the leading producing country of synthetic industrial diamond, followed by the United States and Russia, in descending order of quantity. These three countries produced about 99% of the world's synthetic industrial diamond. Synthetic diamond accounted for more than 99% of global industrial diamond production and consumption. Worldwide production of manufactured industrial diamond totaled more than 15 billion carats.

The United States is likely to continue to be one of the world's leading markets for industrial diamond into the next decade and is expected to remain a significant producer of synthetic industrial diamond as well. U.S. demand for industrial diamond is likely to be strong in the construction sector as the United States continues building, milling, and repairing the Nation's highway system. Industrial diamond is impregnated in or coats the cutting edge of saws used to cut concrete in highway construction and repair work.

World Natural Industrial Diamond Mine Production and Reserves: Reserves for Russia, South Africa, and Zimbabwe were revised based on company and Government reports.

	Mine production		Reserves ⁶
	2024	2025 ^e	
United States	—	—	NA
Angola	1	1	150
Botswana	5	5	250
Congo (Kinshasa)	7	7	150
Russia	16	16	750
South Africa	3	3	87
Zimbabwe	5	5	56
Other countries	1	1	250
World total (rounded)	38	38	1,700

World Resources:⁶ Natural diamond deposits have been discovered in more than 35 countries. Natural diamond accounts for less than 1% of all industrial diamond used; synthetic diamond accounts for the remainder. At least 15 countries have the technology to produce synthetic diamond.

Substitutes: Materials that can compete with industrial diamond in some applications include manufactured abrasives such as cubic boron nitride, fused aluminum oxide, and silicon carbide. Globally, synthetic diamond, rather than natural diamond, is used for more than 99% of industrial applications.

⁶Estimated. NA Not available. — Zero.

¹See the Gemstones chapter for information on gem-quality diamond.

²Defined as manufactured diamond production + secondary diamond production + imports – exports.

³Defined as imports – exports.

⁴Less than 500 carats.

⁵Includes Hong Kong.

⁶See Appendix C for resource and reserve definitions and information concerning data sources.