

Detailed description of the subject of the contract

The subject of the order is the supply of HPHT monocrystalline diamond powders of high purity for the project "Nanosensors and imaging with the use of quantum effects - synergy of glass and diamond for applications in new generation biodiagnostics" in the TEAM-NET competition, financed by the Regional Development Fund under the Operational Program Smart Growth 2014-2020 (OP SG), Axis IV: Increasing the scientific and research potential, Measure 4.4: Increasing the human resources potential of the R&D sector, implemented at the Faculty of Electronics, Telecommunications and Information Technology of the Gdańsk University of Technology.

The subject of the contract includes the delivery to the seat of the ordering party: Gdańsk University of Technology, Faculty of Electronics, Telecommunications and IT, ul. Narutowicza 11/12, 80-233 Gdańsk, WETI A building (no. 41), room 116.

The Ordering Party requires that the Subject of the Order in each part of the procedure is brand new, complete and of a high standard both in terms of workmanship and functionality, free from material and construction defects, without prior use and may not be the subject of third party rights.

Common Procurement Vocabulary (CPV) classification codes: 24950000-8 specialty chemicals, 14521140-2 gemstone dust or powder.

Specification - HPHT monocrystalline diamond powders of high purity

Monocrystalline diamond powders:
Structure: Single crystal

1) Purity: 100% diamond
Type: MSY
Size: 0-0.03 μ m
Median Tolerance: 0.014-0.022 μ m
Upper size limit: (D99) 0.06 μ m
Quantity: 1 x 100 ct

2) Purity: 100% diamond
Type: MSY
Size: 0-0.1 μ m
Median Tolerance: 0.040-0.060 μ m
Upper size limit: (D99) 0.15 μ m
Quantity: 2 x 100 ct

3) Purity: 100% diamond
Type: MSY

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Size: 0-0.15 μ m

Median Tolerance: 0.60-0.90 μ m

Upper size limit: (D99) 0.2 μ m

Quantity: 5 x 100 ct

4) Purity: 100% diamond

Type: MSY

Size: 0-0.25 μ m

Median Tolerance: 0.105-0.145 μ m

Upper size limit: (D99) 0.33 μ m

Quantity: 15 x 100 ct

5) Purity: 100% diamond

Type: MSY

Size: 0-0.35 μ m

Median Tolerance: 0.155-0.205 μ m

Upper size limit: (D99) 0.42 μ m

Quantity: 5 x 100 ct

6) Purity: 100% diamond

Type: MSY

Size: 0-0.5 μ m

Median Tolerance: 0.197-0.263 μ m

Upper size limit: (D99) 0.53 μ m

Quantity: 7 x 100 ct

7) Purity: 100% diamond

Type: MSY

Size: 0.25-0.5 μ m

Median Tolerance: 0.31-0.39 μ m

Upper size limit: (D99) 0.70 μ m

Quantity: 7 x 100 ct

8) Purity: 100% diamond

Type: MSY

Size: 0.25-0.75 μ m

Median Tolerance: 0.45-0.55 μ m

Upper size limit: (D99) 0.90 μ m

Quantity: 15 x 100 ct

9) Purity: 100% diamond

Type: MSY

Size: 0.5-1.0 μ m

Median Tolerance: 0.65-0.77 μ m

Upper size limit: (D99) 1.28 μ m

Quantity: 7 x 100 ct

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10) Purity: 100% diamond
Type: MSY
Size: 0.75-1.25 μ m
Median Tolerance: 0.95-1.05 μ m
Upper size limit: (D99) 1.70 μ m
Quantity: 15 x 100 ct