

Detailed description of the subject of the contract

The subject of the order is the supply of HPHT nanodiamond powders with nitrogen color centers 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 nanodiamond powders with nitrogen color centers

1. Nanodiamond Red Fluorescent Powder, Nitrogen NV Color Centers, Weight 0.5g, Size 1 Micron, Amphoteric Surface Groups.
2. Nanodiamond red fluorescent powder, nitrogen NV color centers, mass 2 x 50 mg, size 15 microns, amphoteric surface groups.
3. Nanodiamond red fluorescent powder, nitrogen NV color centers, weight 2 x 50 mg, size 150 microns, amphoteric surface groups.
4. Nanodiamond red fluorescent, carboxylated, size 140 nm, suspended in deionized water, nitrogen color centers NV, quantity 4 x 10 ml (concentration 1 mg / ml).
5. Nanodiamond Red Fluorescent, Carboxylated, Size 20nm, Suspended in Deionized Water, Nitrogen Color Centers NV, 4 x 10mL Quantity (1mg/mL Concentration).
6. Nanodiamond red fluorescent, size 40 nm, biotin modified, nitrogen color centers 1-4 NV, quantity 2 x 2 mg (concentration 1 mg/ml).
7. Detonation Nanodiamond, 140nm Raw DND -15mV, Zeta 2%, ash 200g.

Appendix No. 1 to the contract award notice No. ZZ/029/009/2023

8. Boron doped nanodiamond powder, mass 2 x 50 mg, size 1 um, boron concentration 2wt% B, amphoteric surface groups.
9. Nanodiamond red fluorescent powder, nitrogen NV color centers, weight 2 x 10 mg, size 100nm, hydrogen surface groups.
10. Nanodiamond red fluorescent, carboxylated, size 40 nm, suspended in deionized water, nitrogen color centers NV, quantity 4 x 10 ml (concentration 1 mg/ml).