

Qual Diamond Hi-tech Corporation



Nano-Diamond Water Suspensions

Qual Diamond Nano-Diamond Water Suspensions are a series of state-of-the-art products developed by Qual Diamond with monocrystalline diamond particles produced by high pressure-high temperature (HP-HT) method. After treatment with Qual Diamond's advanced fractionation and surface treatment technologies, these products exhibit narrow size distribution, good dispersibility, and stability in different media.

Qual Diamond Nano-Diamond Water Suspensions can be used in coating, paint catalyst support, additives for improved performance, seeding for CVD thin film, fabrication of nanocomposites, optical transistors, and other applications.

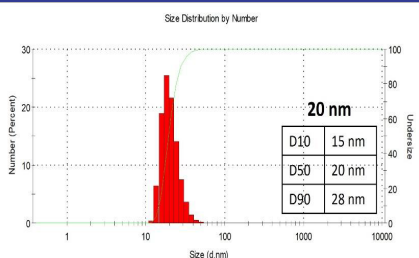
New Products

Features and Advantages

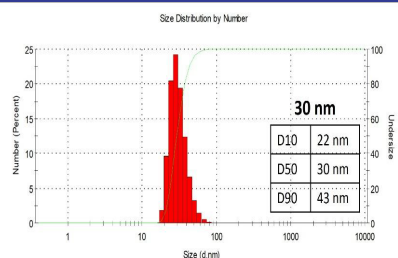
- ◆ Narrow and precise size distribution.
- ◆ High purity.
- ◆ Good dispersibility and stability in different matrixes.
- ◆ Superior hardness and chemical resistance.
- ◆ Wear and friction deterrent.
- ◆ Anti-corrosive properties.
- ◆ Enhanced substrate adhesion properties.
- ◆ High thermal conductivity and electrical resistivity.

Available Sizes:

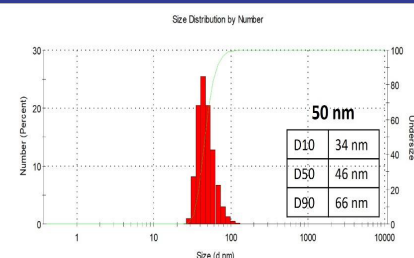
20 nm



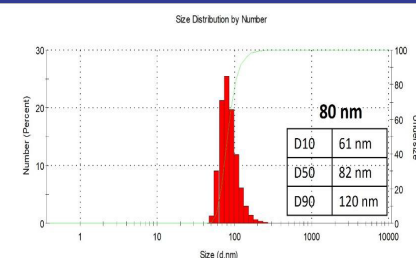
30 nm



50 nm



80 nm



100 nm

