NAT micron diamond powder
Natural diamond, precision size range

NAT micron diamond powder derives from natural industrial diamond which is processed to precision micron sizes. Specialized milling and cleaning processes yield sharp-edged, free-cutting particles. NAT diamond is available as diamond powder and as ready-to-use diamond slurry.

**Blocky particle shape**  NAT diamond has the same monocrystalline structure as synthetic diamond, but without the traces of metal catalysts which are inherent to synthetic diamond. Natural diamond features distinct cleavage planes. This results in blocky and irregular shaped, free-cutting particles. For bonded diamond tools, the fracturing mechanism of the diamond provides a self-sharpening of the tool which increases its service life.

**Precision size range**  A narrow particle size distribution maximizes the amount of particles of the same size while fine and coarse particles are minimized. Combined with a clearly defined upper size limit, this feature allows for both high process reproducibility and superior results in surface quality.

**Narrow tolerance**  The narrow tolerances in particle size distribution guarantee consistent lot-to-lot performance.

**Purity**  Proprietary cleaning processes guarantee high standards of product purity. NAT diamond is free of metal catalysts. The low electrical conductivity makes NAT diamond suitable for the production of electroplated diamond tools.
Natural diamond  NAT diamond is processed from mined industrial quality natural diamond. Diamond is formed in depths of several hundreds of kilometres underground in conditions of high pressure and high temperature. Volcanic activity eventually forces the diamond to the earth’s surface. NAT diamond particles are of a monocrystalline structure featuring cleavage planes oriented parallel to the optical axis.

Applications  NAT diamond is suitable for the production of electroplated diamond tools such as grinding wheels, drills and saws. In loose particle form, NAT diamond is used for polishing of diamond wire dies made of natural diamond and PCD.