

graphite whiskers

Also contains definition of: carbon whiskers

Thin, approximately cylindrical filaments in which graphene layers are arranged in a scroll-like manner. There is, at least in part, a regular stacking of the layers as in the graphite lattice, giving rise to h,k,l , X-ray reflections. The physical properties of graphite whiskers approach, along the cylinder axis, those of graphite.

Note:

If there is, due to misalignment of the layers caused by their bending, no three-dimensional stacking order as in graphite, the term carbon whiskers should be used. Graphite whiskers and carbon whiskers should be distinguished from more disordered filamentous carbon.

Source:

PAC, 1995, 67, 473 (*Recommended terminology for the description of carbon as a solid (IUPAC Recommendations 1995)*) on page 492