

pitch-based carbon fibres

Carbon fibres obtained from pitch precursor fibres after stabilization treatment, carbonization and final heat treatment.

Note:

The term pitch-based carbon fibres comprises the isotropic pitch-based carbon fibres as well as the anisotropic mesophase pitch-based carbon fibres (MPP-based carbon fibres). The isotropic type belongs to the carbon fibres type LM (low modulus) and is mainly used as filler in polymers and insulation materials and for similar applications. The anisotropic type (MPP-based carbon fibres) belongs to the carbon fibres type HM and is used mainly for reinforcement purposes due to its high Young's modulus value.

Source:

PAC, 1995, 67, 473 (*Recommended terminology for the description of carbon as a solid (IUPAC Recommendations 1995)*) on page 500