

### **gas-phase-grown carbon fibres**

*Carbon fibres* grown in an atmosphere of hydrocarbons with the aid of fine particulate solid catalysts such as iron or other transition metals and consisting of *graphitizable carbon*.

Notes:

Gas-phase-grown carbon fibres transform during *graphitization heat treatment* into *graphite fibres*. These show a very high degree of preferred orientation and are particularly suitable for intercalation treatments. The term ‘vapour-grown carbon fibres’ alternatively used in the literature is acceptable. The use of the term ‘CVD fibres’ is not recommended as an alternative for gas-phase-grown carbon fibres since the term ‘CVD fibres’ also describes fibres grown by a chemical vapour deposition (CVD) process on substrate fibres.

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