

## **catalytic graphitization**

The transformation of non-graphitic carbon into graphite by heat treatment in the presence of certain metals or minerals.

Note:

Catalytic graphitization gives a fixed degree of graphitization at lower temperature and/or for a shorter heat treatment time than in the absence of the catalytic additives (or a higher degree of graphitization at fixed heat treatment conditions). Often it involves dissolution of carbon and precipitation of graphite at the catalyst particles so that non-graphitizing carbons can be graphitized by this procedure.

**Source:**

PAC, 1995, 67, 473 (*Recommended terminology for the description of carbon as a solid (IUPAC Recommendations 1995)*) on page 484