

exfoliated graphite

The product of very rapid heating (or flash heating) of *graphite intercalation compounds*, such as graphite hydrogensulfate of relatively large particle diameter (flakes). The vaporizing intercalated substances force the graphite layers apart. The exfoliated graphite assumes an accordion-like shape with an apparent volume often hundreds of times that of the original graphite flakes.

Notes:

Exfoliated graphite is usually prepared from well-crystallized natural flake graphite. It is used for the production of graphite foils. Exfoliated graphite is different from the deflagration product of graphite oxide (graphitic acid).

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