[CLAIMS]

[Claim 1]

An SiC multilayer composite material, comprising:

a base;

a first SiC coating layer having a thickness of more than 1 mm to less than 10 mm formed on at least one surface of the base; and

a second SiC coating layer having a thickness of more than 1 mm to less than 10 mm formed on the first SiC coating layer,

wherein the first SiC coating layer and the second SiC coating layer have different diffraction intensity ratios I of an X-ray diffraction peak calculated by the following Formula 1.

[Formula 1]

Diffraction intensity ratio (I) = (peak intensity of plane (200) + peak intensity of plane (220)) / peak intensity of plane (111)

[Claim 2]

The SiC multilayer composite material of claim 1, wherein a diffraction intensity ratio I of the first SiC coating layer is more than 1.21.

[Claim 3]

The SiC multilayer composite material of claim 1, wherein a diffraction intensity ratio I of the first SiC coating layer is more than 1.21 and less than 1.5.

[Claim 4]

The SiC multilayer composite material of claim 1, wherein a diffraction intensity ratio I of the first SiC coating layer is 1.5 or more.

[Claim 5]

The SiC multilayer composite material of claim 1, wherein a diffraction

intensity ratio I of the second SiC coating layer is less than 1.5.

[Claim 6]

The SiC multilayer composite material of claim 1, wherein a thickness ratio of the first SiC coating layer to the second SiC coating layer is 1:0.1 to 1:0.95.