[CLAIMS]

[Claim 1]

An SiC material in which a diffraction intensity ratio I of an X-ray diffraction peak calculated by the following Formula 1 is less than 1.5.

[Formula 1]

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

wherein the SiC material has a thickness of more than 1 mm to less than 10 mm,

wherein a stability of the SiC material is maintained in a plasma enviroment, and

wherein the plane (111) has a maximum diffraction peak value among diffraction peak values.

[Claim 2]

The SiC material of claim 1, wherein the diffraction intensity ratio I is 1.21 or less.

[Claim 3]

The SiC material of claim 1, wherein the diffraction intensity ratio I is 1.0 or less.

[Claim 4]

The SiC material of claim 1, wherein the diffraction intensity ratio I is 0.9 or less.

[Claim 5]

The SiC material of claim 1, wherein the diffraction intensity ratio I is 0.8 or less.

[Claim 6]

The SiC material of claim 1, wherein a value of 2θ of a peak of the plane (111)

is 35° to 36°, a value of 2θ of a peak of the plane (200) is 41° to 42°, and a value of 2θ of a peak of the plane (220) is 60° to 61°.

[Claim 7]

An SiC composite material, comprising:

a base; and

an SiC coating layer formed on at least one surface of the base,

wherein the SiC coating layer is an SiC material of any one of claims 1 to 6.

[Claim 8]

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 9]

The SiC multilayer composite material of claim 8, wherein a diffraction intensity ratio I of the first SiC coating layer is more than 1.21.

[Claim 10]

The SiC multilayer composite material of claim 8, wherein a diffraction

intensity ratio I of the first SiC coating layer is more than 1.21 and less than 1.5.

[Claim 11]

The SiC multilayer composite material of claim 8, wherein a diffraction intensity ratio I of the first SiC coating layer is 1.5 or more.

[Claim 12]

The SiC multilayer composite material of claim 8, wherein a diffraction intensity ratio I of the second SiC coating layer is less than 1.5.

[Claim 13]

The SiC multilayer composite material of claim 8, wherein a thickness ratio of the first SiC coating layer to the second SiC coating layer is 1:0.1 to 1:0.95.