CLAIMS

[Claim 1]

A sintered body of zirconia,

wherein the zirconia contains (i) stabilizing element-containing zirconia or (ii) zirconia containing stabilizing element-containing zirconia and a coloring element,

the sintered body has three or more layers stacked in a layered manner, two adjacent layers among the layers differ from each other in at least one of stabilizing element content and coloring element content,

the coloring element is contained in all or some of the layers,

the coloring element is one or more selected from the group consisting of iron, cobalt, manganese, titanium, praseodymium, gadolinium, terbium, and erbium, and

a difference between the stabilizing element content in a first layer located at one end among the stacked layers and the stabilizing element content in a second layer located at the other end is 2.0 mol% or less.

[Claim 2]

The sintered body according to Claim 1, wherein a third layer stacked between the first layer and the second layer in a layered manner includes one or more layers.

[Claim 3]

The sintered body according to Claim 2, wherein the

third layer includes two or more layers, and an increasing or decreasing tendency of at least one of translucency and a color tone does not change in a stacking direction from the first layer to the third layer or from the second layer to the third layer.

[Claim 4]

A sintered body of zirconia,

wherein the zirconia contains (i) stabilizing element-containing zirconia or (ii) zirconia containing stabilizing element-containing zirconia and a coloring element,

the sintered body has three or more layers stacked in a layered manner, two adjacent layers among the layers differ from each other in at least one of stabilizing element content and coloring element content,

the coloring element is contained in all or some of the layers,

the coloring element is one or more selected from the group consisting of iron, cobalt, manganese, titanium, praseodymium, gadolinium, terbium, and erbium, and

a difference between a shrinkage ratio of the sintered body in a first layer located at one end among the stacked layers and a shrinkage ratio of the sintered body in a second layer located at the other end (difference in shrinkage ratio) is 0.4% or less.

[Claim 5]

The sintered body according to Claim 4, wherein a third layer stacked between the first layer and the second layer in a layered manner includes one or more layers.

[Claim 6]

The sintered body according to Claim 5, wherein the third layer includes two or more layers, and an increasing or decreasing tendency of at least one of translucency and a color tone does not change in a stacking direction from the first layer to the third layer or from the second layer to the third layer.

[Claim 7]

A calcined body of a zirconia composition,

wherein the zirconia composition contains (iii) a stabilizing element-containing zirconia composition having a necking structure or (iv) a zirconia composition containing stabilizing element-containing zirconia having a necking structure and a coloring element,

the calcined body has three or more layers stacked in a layered manner, two adjacent layers among the layers differ from each other in at least one of stabilizing element content and coloring element content,

the coloring element is contained in all or some of the layers,

the coloring element is one or more selected from the

group consisting of iron, cobalt, manganese, titanium, praseodymium, gadolinium, terbium, and erbium, and

a difference between the stabilizing element content in a first layer located at one end among the stacked layers and the stabilizing element content in a second layer located at the other end is 2.0 mol% or less.

[Claim 8]

The calcined body according to Claim 7, wherein a third layer stacked between the first layer and the second layer in a layered manner includes one or more layers.

[Claim 9]

The calcined body according to Claim 8, wherein the third layer includes two or more layers, and an increasing or decreasing tendency of a color tone does not change in a stacking direction from the first layer to the third layer or from the second layer to the third layer.

[Claim 10]

A calcined body of a zirconia composition,

wherein the zirconia composition contains (iii) a stabilizing element-containing zirconia composition having a necking structure or (iv) a zirconia composition containing stabilizing element-containing zirconia having a necking structure and a coloring element,

the calcined body has three or more layers stacked in a layered manner, two adjacent layers among the layers differ

from each other in at least one of stabilizing element content and coloring element content,

the coloring element is contained in all or some of the layers,

the coloring element is one or more selected from the group consisting of iron, cobalt, manganese, titanium, praseodymium, gadolinium, terbium, and erbium, and

a difference between a shrinkage ratio of the calcined body in a first layer located at one end among the stacked layers and a shrinkage ratio of the calcined body in a second layer located at the other end (difference in shrinkage ratio) is 0.4% or less.

[Claim 11]

The calcined body according to Claim 10, wherein a third layer stacked between the first layer and the second layer in a layered manner includes one or more layers.

[Claim 12]

The calcined body according to Claim 11, wherein the third layer includes two or more layers, and an increasing or decreasing tendency of a color tone does not change in a stacking direction from the first layer to the third layer or from the second layer to the third layer.

[Claim 13]

A method for producing the sintered body according to any one of Claims 1 to 6, the method comprising:

a step of sintering, at 1,200°C or higher and 1,600°C or lower, a green body in which three or more powder composition layers composed of a zirconia raw material powder containing stabilizing element-containing zirconia and, if a coloring element is contained, the coloring element are stacked.

[Claim 14]

A method for producing the sintered body according to any one of Claims 1 to 6, the method comprising:

a step of calcining, at 800°C or higher and lower than 1,200°C, a green body in which three or more powder composition layers composed of a zirconia raw material powder containing stabilizing element-containing zirconia and, if a coloring element is contained, the coloring element are stacked to obtain a calcined body; and a step of sintering the calcined body at 1,200°C or higher and 1,600°C or lower.

[Claim 15]

A method for producing the calcined body according to any one of Claims 7 to 12, the method comprising:

a step of calcining, at 800°C or higher and lower than 1,200°C, a green body in which three or more powder composition layers composed of a zirconia raw material powder containing stabilizing element-containing zirconia and, if a coloring element is contained, the coloring

element are stacked.

[Claim 16]

A dental material comprising the sintered body according to any one of Claims 1 to 6.

[Claim 17]

A dental material comprising the calcined body according to any one of Claims 7 to 12.