CLAIMS

1. An aerosol coating method comprising:

performing a heat treatment process of preliminary ceramic particles having a first mean particle size (D_{50}) to form ceramic particles having a second mean particle size (D_{50}) larger than the first mean particle size;

mixing the ceramic particles with a carrier gas to form an aerosol; and

spraying the aerosol toward a base to form a ceramic coating film on the base,

wherein the heat treatment process comprises a multi-stage heating section, a temperature maintenance section, and a cooling section,

and the multi-stage heating section sequentially comprises a first heating section, a pause section, and a second heating section, and the second heating section has a temperature increase rate lower than that of the first heating section.

2. The aerosol coating method of claim 1, wherein the second mean particle size (D_{50}) has a range of 4.5-12.0 μm.

3. The aerosol coating method of claim 1, wherein the heat treatment process is performed at a temperature ranging from 500 °C to 1,400 °C.

4. The aerosol coating method of claim 3, wherein the heat treatment process is performed at a temperature ranging from 1,000 °C to 1,200 °C.

5. The aerosol coating method of claim 1, wherein the temperature maintenance section has a maintenance time in a range of 1-5 hours.

6. The aerosol coating method of claim 1, wherein the cooling section has a cooling rate not higher than 270 °C/hour.