

CARBON CRUCIBLE AND METHOD OF MANUFACTURING SAME

ABSTRACT

A carbon crucible and a method of manufacturing the carbon crucible are provided. The carbon crucible has a structure in which the straight trunk portion and the tray portion are separated in order to prevent cracks in the crucible, and is moreover low in cost and makes a short delivery time possible.

A carbon crucible (1) has a structure including a straight trunk portion (9) and a tray portion (10) vertically separated from each other. The straight trunk portion (9) is made of a carbon fiber-reinforced carbon composite material (C/C composite material), and the tray portion (10) is made of graphite. An upper end face of the tray portion (9) is provided with a step portion (11) having an outer circumference-side region that is higher relative to an inner circumference-side region thereof. The straight trunk portion (9) is fitted to the step portion (11), and in the straight trunk portion (9) and the step portion (9) that are fitted to each other, a gap (A) is provided between an inner circumferential surface (11a) of the step portion (11) and an outer circumferential surface (9a) of the straight trunk portion (9). The gap (A) is preferably from 0.1% to 1.0% of the diameter of the straight trunk portion.

Figure 5