

ABSTRACT

An expanded graphite sheet with improved tensile strength is provided. By using an expanded graphite sheet with improved tensile strength as a lining for a carbonaceous crucible, a method of protecting a carbonaceous crucible is provided that
5 reduces work hours remarkably, makes it possible to cover the inner surface of the crucible without breaking the sheet or producing gaps, and is suitable for increasing the size of the crucible, and a single-crystal pulling apparatus is also provided.

An expanded graphite sheet (10) is characterized in that a reinforcing material (12) comprising carbon fibers is formed in a laminate form on at least one side of a
10 substrate (11) made of an expanded graphite material. Another feature is interposing the expanded graphite sheet (10) between a quartz crucible and a carbonaceous crucible in which the quartz crucible is placed, to use the expanded graphite sheet as a lining for covering an inner surface of the carbonaceous crucible.