

ABSTRACT

The present disclosure relates to a liquefied gas storage tank and a ship including the same. A liquefied gas storage tank according to the present disclosure is a liquefied gas storage tank for storing a cryogenic material and includes a primary barrier made of metal to form an accommodating space for accommodating a cryogenic material; a primary insulating wall in which a primary plywood and a primary insulating material are sequentially disposed to the outside of the primary barrier; a secondary barrier provided on the outside of the primary insulating wall; and a secondary insulating wall in which a secondary insulating material and a secondary plywood are sequentially disposed in a stack to the outside of the secondary barrier, wherein the secondary barrier includes a main barrier provided on top of each secondary insulating wall constituting a unit element; and an auxiliary barrier connecting the adjacent main barriers to each other, the secondary barrier is formed of a mixed material of a metal and a non-metal, and the primary insulating wall has a thickness of 66% to 166% of that of the secondary insulating wall in order to lower a thermal stress.

FIG. 1