

ABSTRACT

The present application relates to the technical field of glass-ceramics, and in particular to a high-lithium-content glass-ceramic, a chemically strengthened glass-ceramic, and a use thereof. The high-lithium-content glass-ceramic comprises a lithium disilicate crystal phase as a primary crystal phase and has a specific content range of each oxide. On the basis of the molar percentage content of each oxide in the composition of the high-lithium-content glass-ceramic, the composition of the high-lithium-content glass-ceramic satisfies: $0.20 \leq 2.25 \times \text{Li}_2\text{O} - 8 \times \text{ZrO}_2 - 0.2 \times \text{CaO} \leq 0.41$. The high-lithium-content glass-ceramic of the present application can not only achieve high-temperature chemical strengthening, avoiding the problem of "surface cracking" and/or surface "delamination" occurring in a high-temperature salt bath, but also ensure that a chemically strengthened glass-ceramic having a high stress level and high mechanical strength performance can be prepared.