

GLASS COMPOSITION FOR GLASS FIBER, GLASS FIBER, GLASS FIBER
WOVEN FABRIC, AND GLASS-FIBER-REINFORCED RESIN COMPOSITION

Abstract

Provided is a glass composition for glass fiber that enables glass fiber having excellent water resistance and excellent dielectric characteristics in a high-frequency region to be obtained therefrom and has a lowered 1000 poise temperature. The glass composition for glass fiber includes 50.00 to 61.00% by mass of SiO₂, 16.00 to 27.00% by mass of B₂O₃, 7.00 to 14.00% by mass of Al₂O₃, 0.20 to 4.00% by mass of P₂O₅, 0.50 to 5.00% by mass of TiO₂, 0.10 to 5.00% by mass of CaO, 0 to 4.00% by mass of MgO, and 0 to 2.00% by mass of F₂ and Cl₂ in total, with respect to the total amount of the glass composition for glass fiber, and the content S of SiO₂, the content A of Al₂O₃, the content P of P₂O₅, the content T of TiO₂, the content C of CaO, and the content M of MgO satisfy the following formula (1):

$$3.65 \leq (S/A)^2 \times (P \times T)^{1/2} / (C + M)^3 \leq 8.25 \quad (1).$$

No Figure