

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

ABSTRACT

Provided is a glass composition for glass fiber that can achieve both a high elastic modulus and a low coefficient of linear thermal expansion and that enables molten glass with excellent compositional uniformity and clarity. The glass composition for glass fiber of the present invention includes 42.00 to 70.00% by mass of SiO₂, 10.00 to 30.00% by mass of Al₂O₃, 0.00 to 8.00% by mass of MgO, 0.00 to 5.00% by mass of CaO, 2.00 to 25.00% by mass of ZnO, 0.00 to 5.00% by mass of TiO₂, 2.00 to 17.30% by mass of P₂O₅, and 0.01 to 2.00% by mass in total of MxOy (one or more oxides selected from Fe₂O₃, SnO₂, CeO₂, MnO₂, Sb₂O₃, and As₂O₃), with respect to the total amount, and the content Z of ZnO, the content P of P₂O₅, and the content M of MxOy satisfy the following formula (1):

$$0.088 \leq (Z/P) \times M^{1/2} \leq 3.554 \dots (1).$$

No Figure