

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

Abstract

The present invention provides glass fiber that can give a glass fiber woven fabric having an ultra-low dielectric loss tangent and having sufficient handleability. The glass fiber of the present invention comprises a glass composition including SiO₂ in a range of 92.50 to 99.99% by mass, TiO₂ in a range of 0.01 to 5.00% by mass, and Al₂O₃ in a range of 0.00 to 2.50% by mass with respect to the total amount of the glass composition, wherein the glass fiber has a tensile fracture stress in a range of 1.0 to 100.0 MPa, and the content S of SiO₂, the content T of TiO₂, and the tensile fracture stress BS of the glass fiber satisfy the following formula (1): $5.2 \leq BS \times (T / (100 - S))^2 \leq 33.8 \dots (1)$.

No Figure