

Mineral wool having a chemical composition comprising the following constituents, as weight percentages: 39-50 % SiO_2 , 9.5-27 % Al_2O_3 , 5-12 % CaO , 1-5 % MgO , 5-20 % Na_2O , 0-15 % K_2O , 2-15 % Fe_2O_3 , 0-2 % B_2O_3 , an MgO/RO weight ratio of greater than 0.10 and less than 0.50 and an $\text{RO}/(\text{RO}+\text{R}_2\text{O})$ weight ratio of less than 0.55, in which RO represents the alkaline-earth metal oxides CaO , MgO , BaO and SrO , and R_2O represents the alkali metal oxides Na_2O and K_2O .