

The invention relates to mineral fibres having a chemical composition comprising the following constituents, in weight percentages: between 30 and 50 % of  $\text{SiO}_3$ , between 10 and 20 % of  $\text{Al}_2\text{O}_3$ , between 20 and 35 % of  $\text{CaO}+\text{MgO}$  and between 1 and 10 % of  $\text{Na}_2\text{O}+\text{K}_2\text{O}$ , characterised in that said mineral fibres have a total iron content, expressed as  $\text{Fe}_2\text{O}_3$ , °F between 5 and 15 % and a redox, which corresponds to the weight ratio between the ferrous iron content, expressed as  $\text{Fe}_2\text{O}_3$ , and the total iron content, expressed as  $\text{Fe}_2\text{O}_3$ , which is lower than 0.6, preferably lower than 0.5, more preferably lower than 0.4.