

PATENT OF INVENTION

REINFORCED GLASS SUBSTRATE

Applicant: SAINT GOBAIN VITRAGE

DESCRIPTIVE ABSTRACT

The invention relates to glass substrates intended for use as a support in data storage units, reinforced by surface ion exchanges and whose matrix comprises the constituents given hereinafter in the following weight proportions:

SiO_2	45 - 65%
Al_2O_3	0 - 20%
B_2O_3	0 - 5%
Na_2O	4 - 12%
K_2O	3.5 - 12%
MgO	0 - 8%
CaO	0 - 13%
ZrO_2	0 - 20%

the sum of the oxides SiO_2 , Al_2O_3 and ZrO_2 remaining equal to or below 70%, said composition optionally incorporating the oxides BaO and/or SrO in proportions $11\% \leq \text{MgO} + \text{CaO} + \text{BaO} + \text{SrO} \leq 24\%$ and the alkaline oxides are introduced in the following weight percentages $0.22 \leq \text{Na}_2\text{O}/\text{Na}_2\text{O} + \text{K}_2\text{O} \leq 0.60$.