

PATENT

**SILICA-SODA-LIME GLASS COMPOSITIONS AND THEIR
APPLICATIONS**

ABSTRACT

The invention relates to a glass composition intended for the manufacture of thermally stable substrates or panes, which comprises the following constituents in the following proportions by weight;

SiO ₂	55 - 70%
Al ₂ O ₃	0 - 5% or 5 - 10%
ZrO ₂	5 - 10% or 0 - 5%
B ₂ O ₃	0 - 3%
Na ₂ O	2 - 6%
K ₂ O	5 - 11%
MgO	0 - 6%
CaO	2 - 11%
SrO	4 - 12%
BaO	0 - 2%

with the following relationships:

$$\text{Na}_2\text{O} + \text{K}_2\text{O} \geq 8\%$$

$$\text{MgO} + \text{CaO} + \text{SrO} + \text{BaO} > 10\%$$

the said composition having a strain point in excess of 600°C.