SODA-LIME-SILICATE GLASS

is a clear glass of the third hydrolytic class and a soda-lime glass type with a high content of alkali and alkaline earth oxides.

is characterized by its variety of fields of applications which are e. g. in the fields of pharmacy, medicine, cosmetics and food industry.

Physical Data

Medium coefficient of linear expansion	
to DIN 52328:	$9{,}1 \cdot 10^{-6}\ K^{-1}$
Transformation Temperatur Tg:	525 ° C
Temperatur fixed points at viscosity η in dPa . s	
10^{13} upper annealing point	530 ° C
$10^{7,6}$ softening point	720 ° C
10^{4} working point	1040 ° C
Density ρ :	2,50 g/cm³

Chemical Data

Hydrolytic Class (ISO 719)	3
Acid Class (DIN 12116)	1
Alkali Class (ISO 695)	2

Chemical Composition (main components in approx. weight %)

SiO_2	B_2O_3	K_2O	AI_2O_3	Na_2O	BaO	CaO	MgO
69	1	3	4	13	2	5	3