

# NEO 1730

## Technical Data

GlassType/Application	Alkaline earth aluminosilicate glass for high temperature applications in electrical engineering, for sealing to molybdenum, free from alkali Bulb and exhaust tube for halogen lamps for automotive, household and general lighting		
Physical Data (approx. value)	Coefficient of mean linear thermal expansion $\alpha(20^{\circ}\text{C}; 300^{\circ}\text{C})$ (ISO 7991) ..... 4.5 $10^{-6}\text{K}^{-1}$ Transformation temperature $T_g$ (ISO 7884-8) ..... 715 $^{\circ}\text{C}$ Glass temperature at viscosity $\eta$ in $\text{dPa} \cdot \text{s}$ $10^{14.5}$ (strain point) (ISO 7884-7) ..... 675 $^{\circ}\text{C}$ $10^{13}$ (annealing point) (ISO 7884-4) ..... 725 $^{\circ}\text{C}$ $10^{7.6}$ (softening point) (ISO 7884-3) ..... 935 $^{\circ}\text{C}$ $10^4$ (working point) (ISO 7884-2) ..... 1210 $^{\circ}\text{C}$ Density $\rho$ at $25^{\circ}\text{C}$ ..... 2.67 $\text{g} \cdot \text{cm}^{-3}$ Refractive index $n_d$ ( $\lambda = 587.6 \text{ nm}$ ) ..... 1.548 Transmission at $\lambda = 585 \text{ nm}$ and 1 mm thick 37 % UV transmission at $\lambda = 330 \text{ nm}$ and 1 mm thick 58 %		

Chemical Resistance	Hydrolytic resistance (ISO 719) ..... Class HGB 1
	Acid resistance (DIN 12116) ..... Class S 3
	Alkali resistance (ISO 695) ..... Class A 2

Alkali content	Total Alkali oxid ..... < 0.03 weight %
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The heavy metal content for the elements lead, cadmium, mercury and hexavalent chromium is below 100 ppm

Transmission  
(exemplary spectrum)

