

High Infrared-Absorbing Glass (for Reed Switches)

STI and SRI have long been used for reed switches.

Features

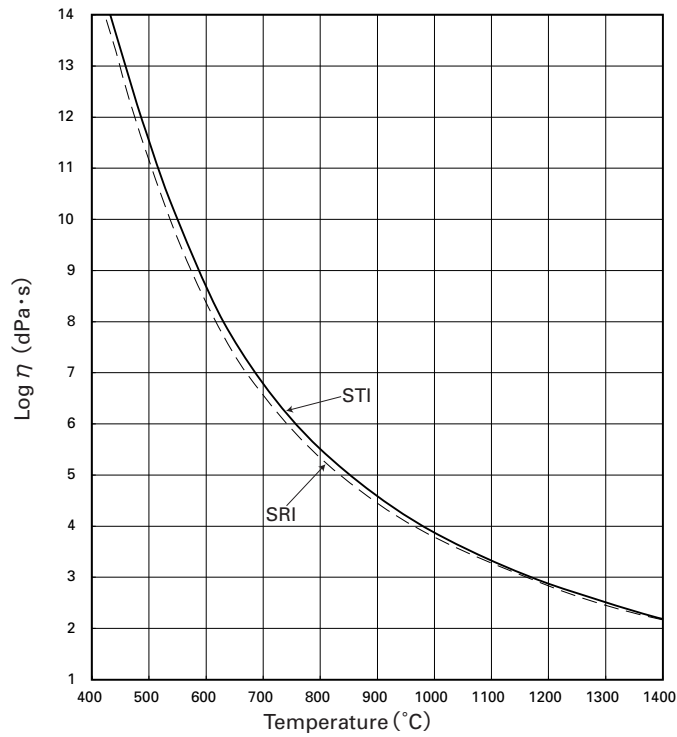
- High rate of infrared absorbance.
(It is possible to heat local areas for sealing by halogen lamp.)
- Excellent sealing characteristics with 52 Ni-Fe alloy.



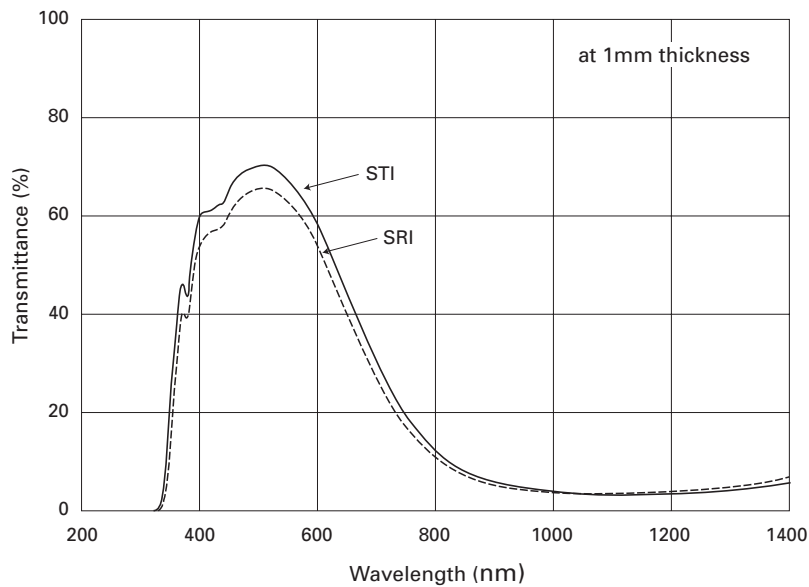
Properties

Properties/Glass Code			STI	SRI
Thermal expansion coeff.	30~380°C	$\times 10^{-7}/K$	94	92.5
Density		$\times 10^3 \text{kg/m}^3$	2.53	2.53
Strain point		°C	420	410
Annealing point		°C	460	450
Softening point		°C	650	635
Working point		°C	980	965
Hydrolytic resistance	JIS R3502	RzO mg	0.6	0.4
Volume resistivity Log ρ	150°C	$\Omega \cdot \text{cm}$	12.2	10.3
	250°C	$\Omega \cdot \text{cm}$	9.3	7.8
Color			Green	Green
Transmittance	$\lambda=1050\text{nm}, t=1\text{mm}$	%	≤ 5	≤ 5
Glass type			$\text{K}_2\text{O} \cdot \text{BaO} \cdot \text{SiO}_2$	$\text{Na}_2\text{O} \cdot \text{BaO} \cdot \text{SiO}_2$
Sealing metal			52 Ni-Fe Alloy	

Viscosity



Transmittance



Standard Dimensions

(mm)

Size		Length	Glass Code	
Outer Diameter	Wall Thickness		STI	SRI
1.70±0.05	0.25±0.05	7.0~50.0 ±0.20	○	
1.75±0.05	0.25±0.05			○
2.05±0.05	0.23±0.05		○	
2.15±0.05	0.28±0.05			○
2.25±0.05	0.32±0.05			○
2.40±0.05	0.38±0.05		○	
2.50±0.05	0.40±0.05		○	
2.65±0.05	0.35±0.05			○
3.07±0.05	0.47±0.05			○
4.95±0.10	0.64±0.10		○	

○ indicates dimensions available.
Other dimensions are available upon request.