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TELEX 844696
 "CCL INC SAMY"

PHYSICAL PROPERTIES OF STRONTIUM -TITANATE CRYSTALS

Property		Reference
Crystal System	Cubic (perovskite structure)	1
Space Group	Oh	2
Symmetry	PM3M	2
Unit Cell Size (a.)	3.905 Å	3
Ti - O distance	Slightly less than 2 Å	4
Sr - O distance	ca. 2.8 Å	
Index of Refraction		5
n _C	2.380	
n _D	2.40g	
n _F	2.488	
Temperature Coefficient of Refractive Index (546 mμ)	$(-6.2 + 0.1) \times 10^{-6}/^{\circ}\text{C}$	6
Dispersion (n _F -n _C)	0.108	5
Reciprocal Relative Dispersion (-)	13	5
Critical Angle	24°32'	7
Stress-Induced Change in Refractive Index, Δn, at 28°C	ca. -2.6×10^{-5} under a hydrostatic stress of 182.2×10^6 dynes/cm ²	8
Piezobirefringence Coefficient (2g ₁₂₁₂) at 25°C	ranges from -3.69×10^{-14} cm ² / dyne at 4200 Å, to -5.98×10^{-14} at 7700 Å in linear fashion	8
Transmission Range	0.395 to 6~L	9