

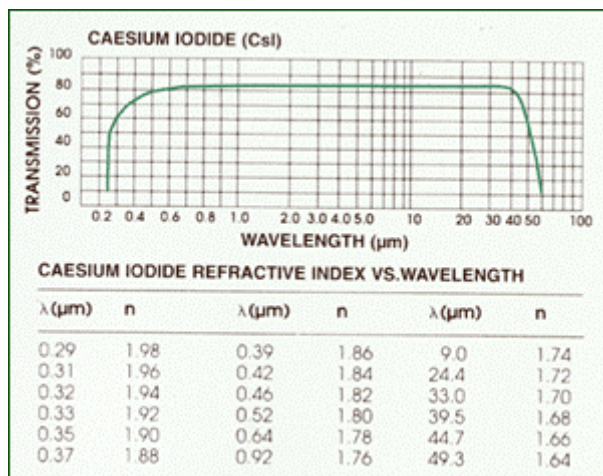
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### CAESIUM IODIDE - CsI

A very useful material with a transmission range from the visible region out to 70 microns through to a 2mm thick window. CsI is very soft and water-soluble and when humidity is relatively high polished surfaces may be damaged by moisture in the atmosphere. Principally used for Infrared Spectroscopic windows and also for beam splitters in FTIR Instrumentation. CsI is also available thallium doped for scintillation applications.

Transmission Range	0.24-70.0 $\mu$
Crystal Structure	Caesium chloride
Cleavage Plane	None
Colour	Colourless
Density	4.526
Melting Point ( $^{\circ}$ )	621
Reflection Loss	13.6% (10 $\mu$ ) for 2 surfaces
Solubility index	44gm/100gm / 0 $^{\circ}$ C
Hardness (Knoop)	20/200 gm indenter
Thermal Conductivity (cal/cm sec $^{\circ}$ C)	$2.7 \times 10^{-3}$ (25 $^{\circ}$ C)
Thermal Expansion coefficient (/ $^{\circ}$ C)	$50 \times 10^{-6}$ (25-50 $^{\circ}$ C)



Whilst every effort has been made to verify the data provided, no responsibility can be accepted for its accuracy

