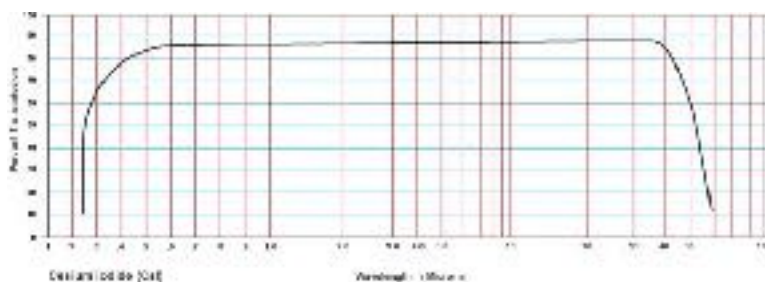


Optical Material Cesium Iodide (CsI) Optical Crystals

Cesium Iodide is useful for beam splitters for Far IR spectrophotometers, IR transmission windows and scintillator applications. Because this material is so soft and extremely hygroscopic, it is very difficult to polish.

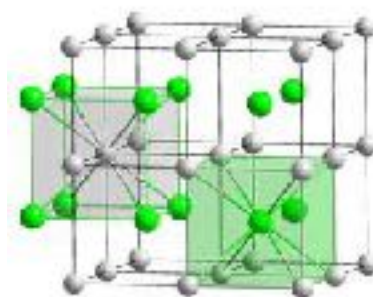
Optical Properties – Cesium Iodide (CsI) Optical Crystals

Transmission Range: 250nm to 55 μ m
Refractive Index: 1.739 at 10.6 μ m
Reflection Loss: 13.6% @ 10.6 μ m(2 surfaces)



Physical Properties– Cesium Iodide (CsI) Optical Crystals

Melting Point: 621° C
Hardness (Knoop): 20 kg/mm²
Young's Modulus: 5.3 GPa
Modulus of Rupture: 810 psi
Apparent Elastic Limit: 810 psi
Structure: Cubic, no cleavage



Chemical Properties– Cesium Iodide (CsI) Optical Crystals

Solubility: 44 gm/ 100 gm water @ 0° C. Soluble in alcohol



International Crystal Laboratories
11 Erie Street, Garfield, NJ
973-478-8944 www.internationalcrystal.net
Em: iclmail@internationalcrystal.net



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