

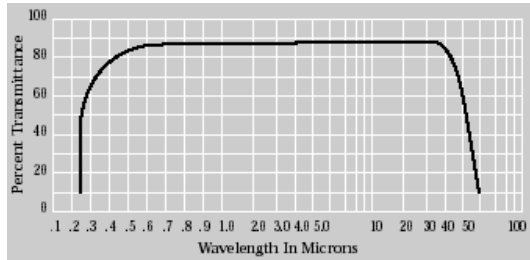


Optical specifications of window materials.

ARS cryostats are available with a large selection of optical windows for UV, Vis and IR experiments.

- UV - .1 to .3 Microns (100 - 300 Nanometers)
- VIS - .3 to 1 Microns (300 to 1000 Nanometers)
- IR - 1 + Microns (1000 nanometers)

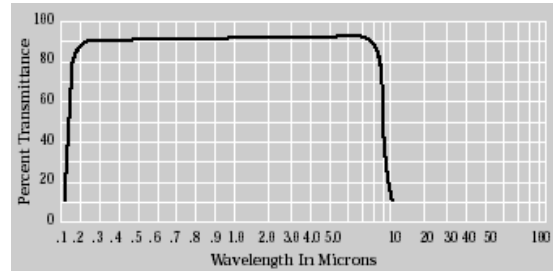
Cesium Iodide (Csl)



Soluble in water. Extremely hygroscopic.

W-X1-CSI

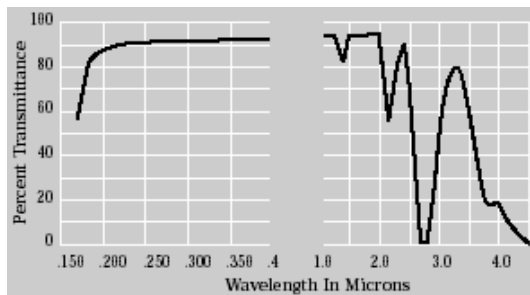
Calcium Fluoride (CaF2)



Insoluble in water. Does not fog.

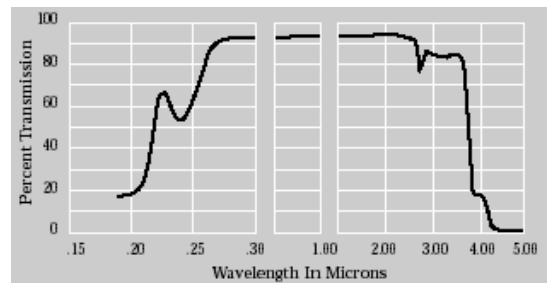
W-X1-CAF

Fused Silica UV grade UV-Vis



Unaffected by most solvents

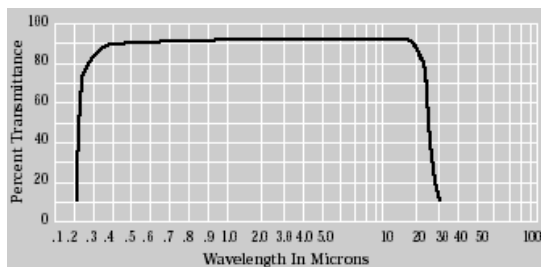
Fused Silica IR grade (SiO2)



Unaffected by most solvents, Synthetic quartz.

W-X1-SYO

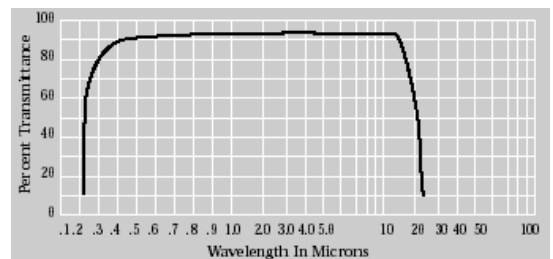
Potassium Bromide (KBr)



Soluble in water. Hygroscopic. Good resistance to mechanical and thermal shock

W-X1-KBR

Potassium Chloride KCl.

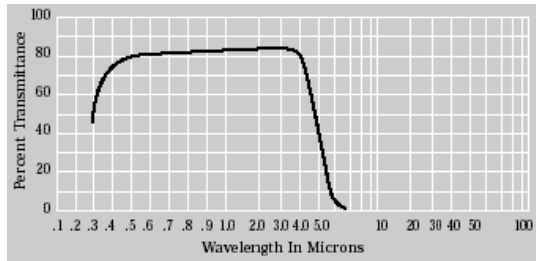


Hygroscopic, Slightly soluble.

W-X1-KCL



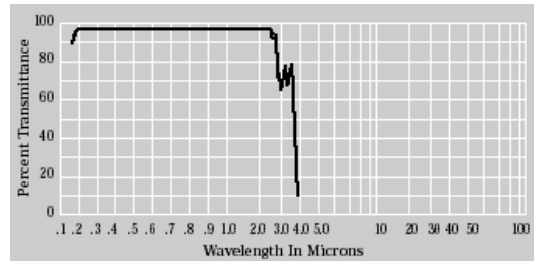
Sapphire (Al_2O_3)



Hardest and most inert material. Recommended for cold windows.

W-X1-SA

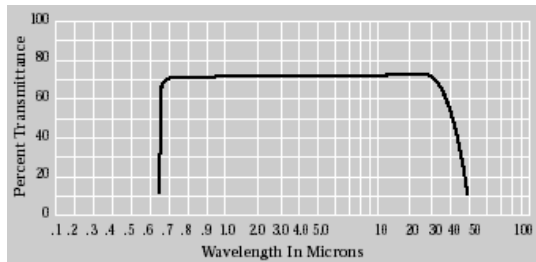
High Purity Quartz (SiO_2)



Unaffected by most solvents, useful range- .25-2.5 Microns. (GE124).

W-X1-HPQ

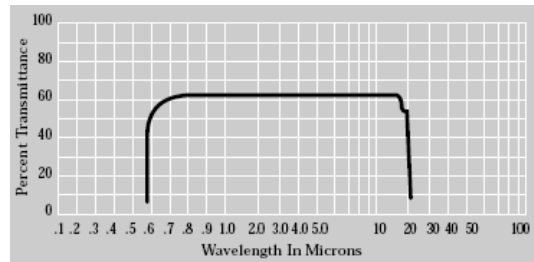
Thallium Bromide (KRS-5)



Slightly soluble in water. Not hygroscopic. Soft, hence easily deformed.

W-X1-KRS

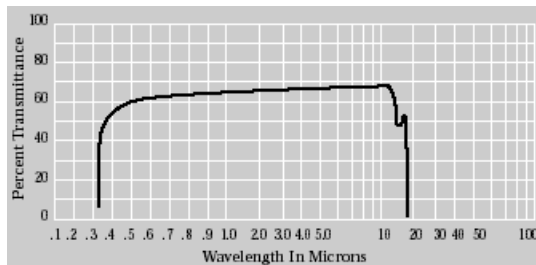
Zinc Selenide (ZnSe)



Insoluble in water, acids and bases. Laser Grade.

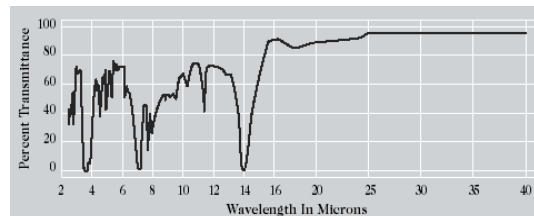
W-X1-ZSE

Zinc Sulphide (ZnS)



Insoluble in water acids and bases. Reacts to strong oxidizing agents. Good resistance to thermal and mechanical shock

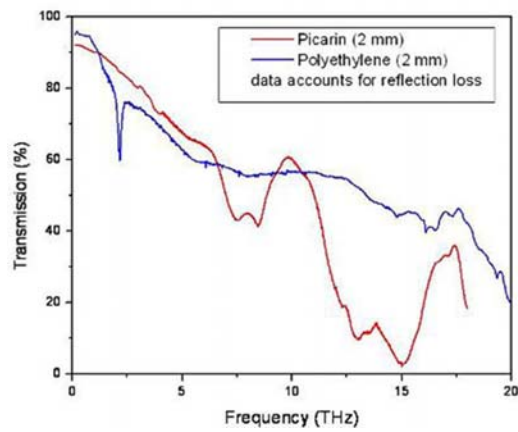
Infrared Plastic - IR



For far IR. Affected by organic solvents.



Picarin & Polyethylene



For TerraHz Spectroscopy Applications.