Selenides

MATERIAL	FORMULA	STANDARD PURITIES, *	THEORETICAL DENSITY, G/cm ³	LISTED MELTING POINT,oC	FABRICATION METHOD	SUGGESTED APPLICATIONS
Bismuth selenide	Bi2Se3	99 - 99.999	6.8	710	Hot-pressed	Multilayer thin film Magneto resistant film
Cadmium selenide	CdSe	99.999	5.8	1750	Hot-pressed	Photoconductive film
Indium selenide	In2Se3	99.999	5.7	890	Hot-pressed	Semiconductors
Lead selenide	PbSe	99.999	7.82	1065	Hot-pressed	Photoconductive film
Molydenum selenide	MoSe2	99.9	6.9	Ca. 1150	Hot-pressed	Lubricant film
Niobium selenide	NbSe2	99.8	6.3	Ca. 780	Hot-pressed	Lubricant film, electrically conductive
Tantalum selenide	TaSe2	99.8	8.6		Hot-pressed	Lubricant film
Tungsten selenide	WSe2	99.8	9.0		Hot-pressed	Lubricant film
Zinc selenide	ZnSe	99.999	6.8	1526	Hot-pressed	Multilayers, Photoconductive & infrared films & filters

Sulfides

MATERIAL	FORMULA	STANDARD PURITIES, *	THEORETICAL DENSITY, G/cm³	LISTED MELTING POINT,oC	FABRICATION METHOD	SUGGESTED APPLICATIONS
Antimony sulfide	Sb2S3	99.9	4.6	550	Hot-pressed	Infrared filter. High index material in red part of visible spectrum
Arsenic sulfide	AS2S3	99.9, 99.99. 99.999	3.2	210 softens	Hot-pressed	Adherent, stable, non- hygroscopic, anti- reflection films an Ge & Si
Cadmium sulfide	CdS	99.99	4.8	1750	Hot-pressed	Photoconductive film
Cadmium sulfoseleni de	xCdS - yCdSe	99.99	varies	varies	Hot-pressed	Photoconductive film
Lead sulfide	PbS	99.9 99.999	7.5	Ca. 780	Hot-pressed	Metal, high reflecting film
Molydenum sulfide	MOS2	99	5.1	450 sub	Hot-pressed	Lubricant film on bearings & other moving parts
Niobium sulfide	NbS1.75	99.8	4.6		Hot-pressed	Lubricant film on bearings & other moving parts

Tantalum sulfide	TaS2	99	6.9		Hot-pressed	Lubricant film on bearings & other moving parts
Tungsten sulfide	WS2	99.8	7.5	Ca. 427 dec.	Hot-pressed	Lubricant film on bearings & other moving parts
Zinc sulfide	ZnS	99.99	4.1	1830	Hot-pressed	Multalayers, high-index film for non-absorbing beam splitter