

Garnets Crystals and Substrates for Epitaxy

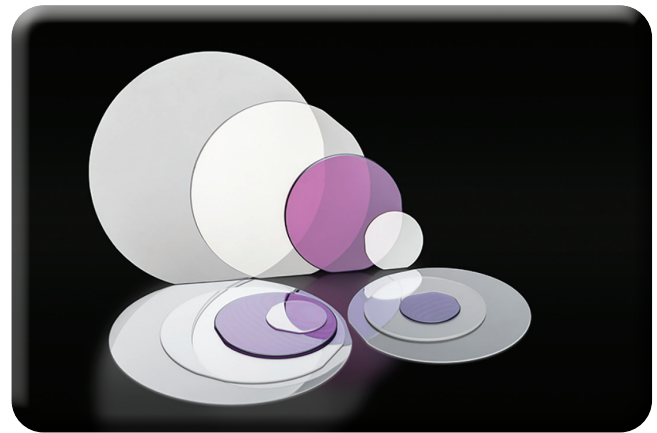


Luxium Solutions has been growing garnets crystals and manufacturing high quality garnets substrates for more than 30 years.

We can offer crystals with a large variety of composition with a very homogeneous and well controlled lattice parameter in large diameters up to 4".

The polished surface of our substrates is of high quality and ready for epitaxy ("epi-ready").

We have a large industrial capacity available and we can provide unique pieces as well as thousands of wafers.



Garnets wafers of different compositions (SGGG, GGG, NGG) and different diameters (from 1" to 4")

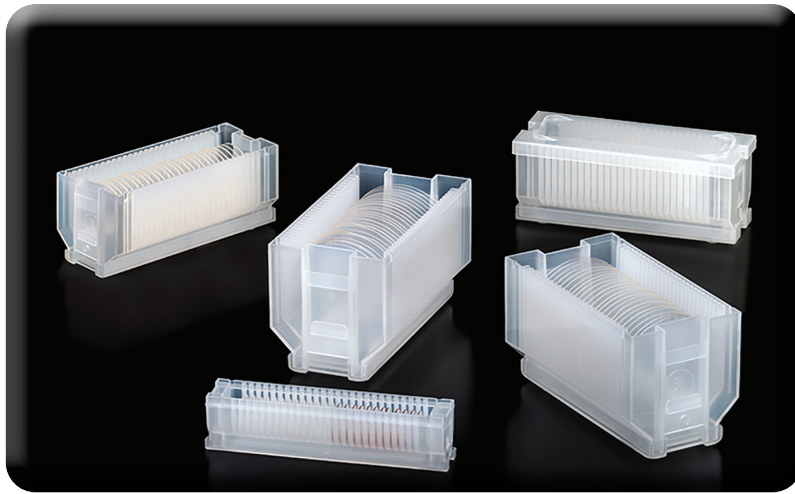
Wafers with standard dimensions and thicknesses are in stock and immediately available.

Products available	GGG	SGGG	NGG
Composition	$Gd_3Ga_5O_{12}$	Substituted GGG	$Nd_3Ga_5O_{12}$
Lattice parameter (at 20°C)	12.383 Å ± 0.001	12.497 Å ± 0.003	12.509 Å ± 0.001
Diameter	1", 2", 3" or 4"	1", 2", 3" or 4"	1" or 2"
Orientation	(111) (110) (100)	(111) (110) (100)	(111)
Thickness	> 450 microns		

Special configurations

- Any shape (square, rectangles, etc.) available on demand
- Other specific compositions could also be manufactured on demand

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Boxes of garnets wafers of different compositions (SGGG, GGG, NGG) and different diameters (from 1" to 4")