

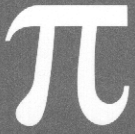


Single Crystal Substrates

PI-KEM Ltd offers a wide range of single crystal substrates. The below listing illustrates materials available.

Examples of all listed materials are available prompt from stock (subject Unsold).

Material	Orientations	Dopant
Al ₂ O ₃	(0001) C Plane, (1010) M Plane (1012) R Plane, (1102) R Plane (1120) A Plane, Random	-
BaTiO ₃	(001)	-
CaCO ₃ Aragonite	(110)	-
GGG	(100), (111)	-
LaAlO ₃	(100)	-
LiNbO ₃	(0001), X-Cut, Y-Cut, YX-Cut, Z-Cut	-
LSA	(001)	-
LSAT	(100)	-
MgAl ₂ O ₄	(100), (110)	-
MgO	(100), (110), (111), Random	-
NdGaO ₃	(001), (110)	-
NiO	(111)	-
SGGG	(111)	-
Si	(100), (111)	-
SiO ₂	(0001), Random	-
SrTiO ₃	(100), (110), (111), Random	-
	(100)	0.03wt% Al
	(100)	0.05wt% NiO
	(100)	15wt% MoO
	(100)	0.05wt% Ce
	(100), (110)	0.25wt% Cr
	(100)	0.5wt% Cr
	(100)	0.5wt% Eu
	(100)	0.13wt% Fe
	(100)	0.4wt% Mo
	(100)	1.0wt% La 3.0wt% La
	(100)	0.01wt% Nb 0.15wt% Nb



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		0.2wt% Nb 0.25wt% Nb 0.5wt% Nb
	(110)	0.1wt% Nb 0.2wt% Nb 0.5wt% Nb
	(111)	0.5wt% Nb
	(001)	0.7wt% Nb
	(100)	0.10wt% Sc
	(100)	0.29wt% Ta
	(100)	0.05wt% W
TiO2	(001), (100), (110), (111)	-
	(001)	0.05wt% Nb
	(110)	0.05wt% Nb
YAG	(100), (111), Random	-
	Random	Ce
YAlO3	(101)	-
YSZ	(100), (111)	-
ZnO	(0001), (1010), (1101), (1120)	-