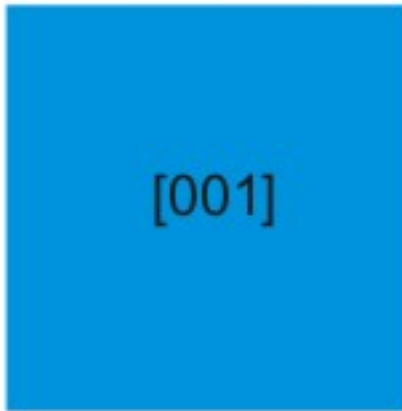


Definition for ordering one or two sides polished substrates

[010]

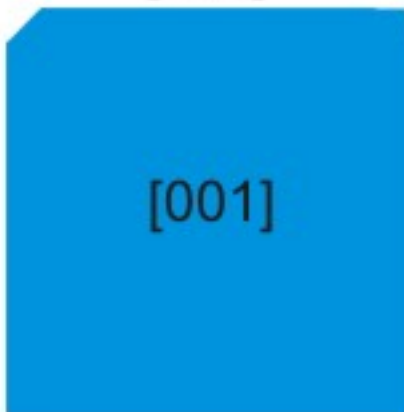


For cubic substrates
one side polished :

eg.: [001]K[010]

Main face = 001
Edge = 010

[110]



For non cubic substrates
one side polished:

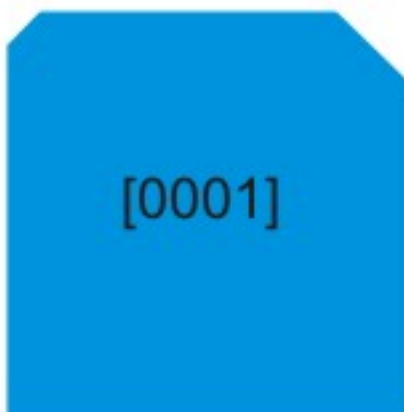
eg.: [001]K[110]

Main face = 001
Edge = 110

identification:

polished side up!
chamfer left corner

[1120]



For non cubic substrates
two side polished:

eg.: [0001]K[1120]

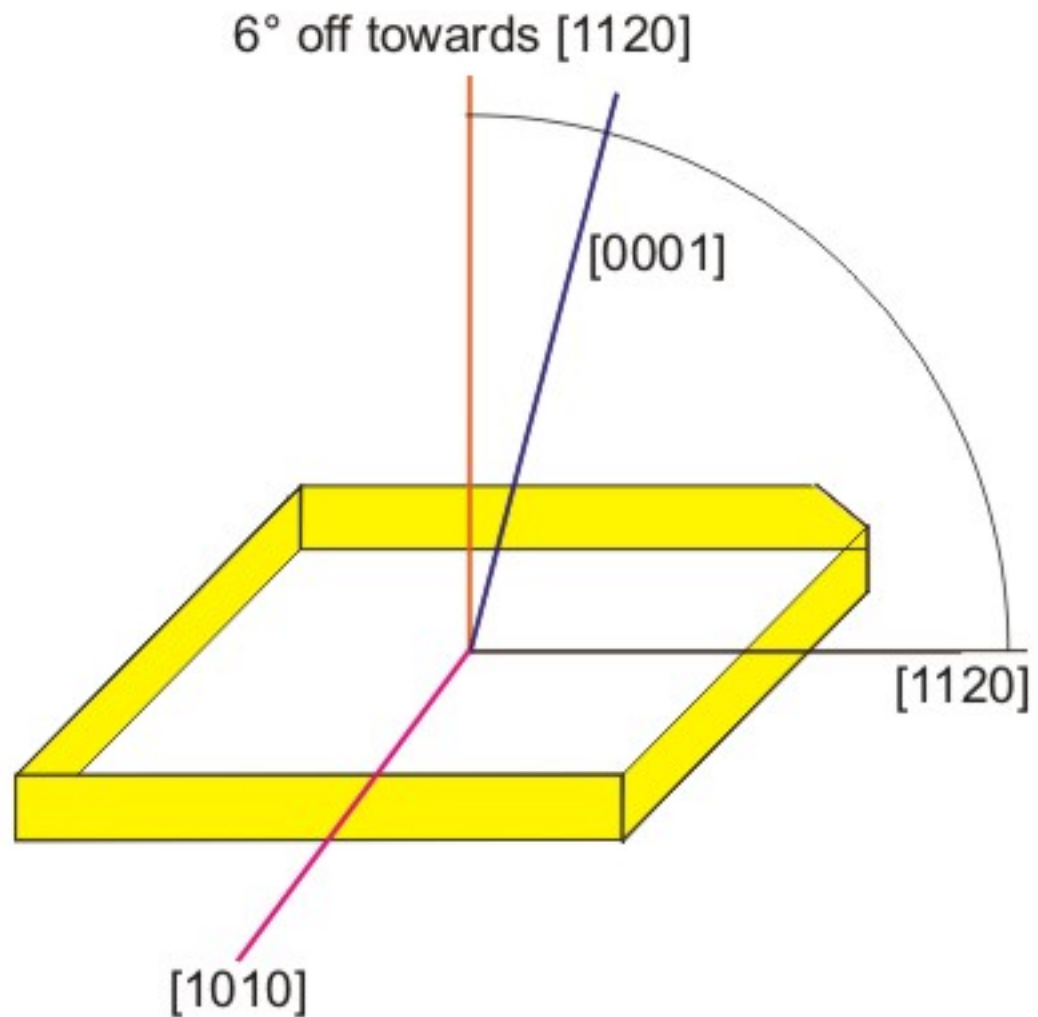
Main face = 0001
Edge = 1120

O-side up (for ZnO)

identification:

small chamfer left corner
large chamfer right corner

Definition for ordering “off cut” substrates



Order info: $[0001]6^\circ$ off towards $[1120]$

Definition for ordering substrates, (nomenclature)

eg.: ZnO

[0001] orientation of polished face

[1120] orientation of edge

Zn side polished face

10 mm size A

10 mm size B

0,5 mm thick

CMP polishing quality

ZnO [0001]K[1120]Zn epi pol 10x10x0,5 CMP

Polishing qualities:

CMP chemo mechanical polishing
(best possible polishing nominal ra better
then the lattice constant) fpr epitaxial
applications.

OPT optical polishing
(good quality optical polishing for non
epitaxial applications)

10/20 scratch/dig ration polishing quality
(mostly used for optical component
regarding DIN or ASTM numbers)

General qualities/grades:

epi or cmp pol. = top grade polished materials

r&d grade = test grade, small defects must be expectet