

Contract Service for Crystal Growth

Material Solutions for Your Innovative R&D

All Kinds of Growth Methods in House

FZ (Floating Zone)	<ul style="list-style-type: none">➤ Low cost and high purity by crucible free growth➤ Capable of:<ul style="list-style-type: none">➤ Atmosphere control➤ Very high temperature; >3000deg.C
CZ (Czochralski)	<ul style="list-style-type: none">➤ Simple structure allowing for large crystals; >100mm dia.➤ Automatic diameter control of crystal growth
VB (Vertical Bridgeman)	<ul style="list-style-type: none">➤ Highly reproducible➤ Low cost
TSSG/KY (Top Seeded Solution Growth) (Kyropoulos)	<ul style="list-style-type: none">➤ Low stress by small temperature gradient
DCCZ (Double Crucible CZ)	<ul style="list-style-type: none">➤ High homogeneity for wide range solid solution from incongruent melt and doping concentration
EFG (Edge-Defined Film-Fed Growth)	<ul style="list-style-type: none">➤ Arbitrary shape of cross section➤ High homogeneity for wide range solid solution from incongruent melt and doping concentration in die



FZ



CZ



DCCZ



KY



VB

OXIDE

Oxide Corporation



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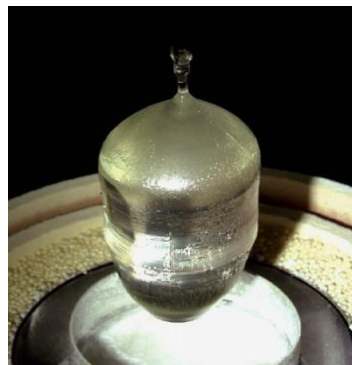
Contents are things of 6-Feb-2013.

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Practical Experience

MgSLT/MgSLN, SLT/SLN,
CLBO, BBO, LBO, KT, TeO₂,
LGT, TGG, TSAG, YIG, YAG,
YVO₄, GdVO₄, GSO, LGSO,
GPS, BSO, SrI₂, Mg₂SiO₄, TiO₂,
LiB₃O₅, Li₂B₄O₇, Sapphire, etc.

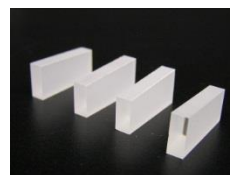


SLT (Stoichiometric LiTaO₃)

Facilities

➤ Crystal Processing

Wafer Slicer, OD Cutter, Automatic Dicing Saw,
Cylindrical Grinder, Surface Grinder,
Lapping & Polishing Machine



➤ Measurement and Evaluation

1. Single Crystals

Spectrophotometer,
Differential Scanning Calorimeter,
Polarization Microscope, X-ray Laue Camera,
X-ray Diffractometer, X-ray Topography,
Schlieren Optical System, Zygo Interferometer,
Refractometer



2. Optical Devices

Life-time Testing System,
Optical Loss Measurement,
Photo-Thermal Common Path Interferometer



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