



Lithium Niobate

End-uses

Single crystal growth.

Wafers made from these crystals are used mainly in the manufacturing of SAW-filters, optical modulators for DWDM, and nonlinear optical applications.

Form

White tablets with greyish shadow

Dimensions

Weight of each tablet ~ 100 gram

Diameter: 40-140 mm, Height: 10-50 mm. Adhesion, cracks, breakage and cleavage of tablets are permissible.

Under agreement with Buyer, dimensions of tablet could be changed

Grades

Grade C – stoichiometric chemistry

Grade K – congruent chemistry

Package

Cartridge containing 10 tablets in hermetically sealed double polymer film.

Grade C is labeled with blue strip, Grade K is labeled with red strip.

Specifications

Chemical composition: LiNbO_3

Элементы	Содержание по маркам	
	Марка С	Марка К
Мольное соотношение $\text{Li}_2\text{O}/(\text{Li}_2\text{O}+\text{Nb}_2\text{O}_5)$	0.493-0.507	0.479-0.493
Li, %	4.58 – 4.81	4.35 – 4.57
Nb, %	63.01 – 62.66	63.36 – 63.66
	Примеси, ppm	
AL	10	10
V	2	2
Bi	2	2
Fe	5	5
Ca	5	5
Co	3	3
Si	20	20
Mg	5	5
Mn	1	1
Cu	2	2
Ni	5	5
Sn	5	5
Pb	1	1
Sb	2	2
Cr	5	5
Zr	2	2
Ti	5	5
(SO4) 2-		0.2