



POTAPENKO GLASS & FILTERS

(POTAPENKO S.V.).

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Cz-SILICON WAFER SOLAR GRADE 5-inch x 200

CRYSTALLOGRAPHY

Formula		Si
Silicon	%	99.9999
Growth method	Cz	Czokhralski
System		mono-crystal
Structure		no enter
Crystallographic orientation		(100)

TRACE ELEMENTS & MATERIAL DEFECTS

Boron		DOPANT
Oxygen	atoms/cm ³	<<1x10 ¹⁸
Carbon	atoms/cm ³	<<1x10 ¹⁷
Material defect	dislocation	FREE
Orientation defect	deg	±3°

ELECTRIC ATTRIBUTES

Electric type	semiconductor	p-TYPE
	acceptor	Boron
Electric resistance	Ohm-cm	0.5-3.0
Life time	micro-sec	>>10

OTHERS

Specific gravity	g/cm ³	2.33
Acid resistance		no enter
Alkali resistance		no enter

SUPPLY FORM

Form		CZ-SILICON WAFER
Size		PSEUDO SQUARE
	mm	125x125 (±0.5)
	inch	5
Thickness	um	200±30
TTV	pm	<30
Bow	um	<40
Surface sawn damage depth	um	<15
Sawn traces	um	< 5

THE TEST CERTIFICATE IS SEMI