



POTAPENKO GLASS & FILTERS

(POTAPENKO S.V.).
c/o Mr. Serge Potapenko Tolstoy St. 10-22. Izum Ukraine. 64300.
Tel: +380574323415. Fax: +380574323415. Mobile: +380662255365.
Reg No: 24740170000003077. VAT 2407300057.

DATA SHEET 3818001000: page 1 of 1

Cz-SILICON INGOT SOLAR GRADE 5-inch x 160-760

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 | <<5x10 ¹⁷ |
| Material defect | EPD, cm ⁻² | <<10 |
| Orientation defect | deg | ±3° |

ELECTRIC ATTRIBUTES

| | | |
|---------------------|---------------------------|-----------------|
| Electric type | semiconductor acceptor | p-TYPE 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 INGOT |
| Size | mm | PSEUDO SQUARE |
| | inch | 125x125 (±0.5) |
| | mm | 5 |
| Length | mm | 160-760 |

THE TEST CERTIFICATE IS ASTM & SEMI.