

## Mateck Neodymium Gallate Substrate, NdGaO3

Category : Ceramic , Oxide

### Material Notes:

Substrate single crystals for superconductivity

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Mateck-Neodymium-Gallate-Substrate-NdGaO3.php](http://www.lookpolymers.com/polymer_Mateck-Neodymium-Gallate-Substrate-NdGaO3.php)

| Physical Properties | Metric     | English                  | Comments |
|---------------------|------------|--------------------------|----------|
| Density             | 7.57 g/cc  | 0.273 lb/in <sup>3</sup> |          |
| a Lattice Constant  | 5.426 Å... | 5.426 Å...               |          |
| b Lattice Constant  | 5.496 Å... | 5.496 Å...               |          |
| c Lattice Constant  | 7.707 Å... | 7.707 Å...               |          |

| Thermal Properties | Metric         | English          | Comments |
|--------------------|----------------|------------------|----------|
| CTE, linear        | 11.0 Åµm/m-Å°C | 6.11 Åµin/in-Å°F |          |
| Melting Point      | 1600 Å°C       | 2910 Å°F         |          |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Dielectric Constant   | 25     | 25      |          |

| Descriptive Properties                | Value              | Comments |
|---------------------------------------|--------------------|----------|
| Growth Techniques                     | Czochralski        |          |
| Orientation                           | (110)              |          |
| Orientation Accuracy ( Å° ), Max      | 0.5                |          |
| Parallelness ( Å° ), max              | 0.02               |          |
| Polishing                             | standard: one side |          |
| Production Method                     | Czochralski grown  |          |
| Roughness of surface (angstroms), max | 30                 |          |
| Scratches                             | none               |          |
| Standard Size (mm)                    | 10 x 10 x 1 or 0.5 |          |
| State                                 | monocrystalline    |          |
| Structure                             |                    |          |

| Descriptive Properties      | orthorhombic<br>Value                 | Comments |
|-----------------------------|---------------------------------------|----------|
| Surface Quality             | with light microscope without defects |          |
| Tolerance of Length (mm)    | Â± 0.1                                |          |
| Tolerance of Thickness (mm) | Â± 0.05                               |          |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China