

# Technical Data Sheet

TDS TeHP SEP-2004



## Tellurium High Purity

### I. Principal Uses

Photoreceptors, infrared and  $\gamma$ -ray detectors, solar cells, thermoelectrics

### II. Physical Data

Crystal structure	hexagonal
Density	6,24 g/cm <sup>3</sup>
Atoms/cm <sup>3</sup>	2,94 x 10 <sup>22</sup>
Transition temperatures	
Melting point	449,5°C +/-0,3°C
Boiling point	989,8°C +/-3,8°C

### III. Analysis

Te	99,99%
Cu	< 5 ppm
Ag	< 5 ppm
Fe	< 2 ppm
Pb	< 5 ppm
Si	< 5 ppm
Cl	≤ 5 ppm

Qualities 5N and 6N are available.

For other elements please inquire. All elements indicated on analysis certificate.

### IV. Available Formats and Packing

Ingot sizes	Ingots of 300g, 1 kg, 2.5 kg and 4 kg. Other sizes on demand.
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Ingots are individually sealed in polyethylene bags and packed in a metal lined wooden cases.

### V. Additional information

#### Handling

May be melted in a quartz, vycor or pyrex boat under a non-oxidising atmosphere. Limit of storage capability is 3 months.

Tellurium inhaling or swallowing causes a garlic breath.

#### Materials safety data sheet (MSDS)

Available upon request.