

Technical Data Sheet

TDS TeTG SEP-2004



Tellurium Technical Grade

I. Principal Uses

additive to steels for improved mechanical and physical properties
additive to copper and lead alloys
chemical and pharmaceutical products
base product for catalyst in mono/polymer productions: TeO_2 , H_6TeO_6
base product for rubber vulcaniser: TeO_2

II. Physical Data

Crystal structure	hexagonal
Theoretical Density	6,24 g/cm ³
Atoms/cm ³	2,94 x 10 ²²
Form	Apparent density
100 or 200 mesh powder	± 3 g/cm ³
25mm lumps	± 6.2 g/cm ³
6kg ingots	± 6,2 g/cm ³
1lb sticks	± 6,2 g/cm ³
shots (2 à 6mm)	± 6,2 g/cm ³
Other forms (e.g. shots) by agreement	
Transition temperatures	
Melting point	449,5°C +/-0,3°C
Boiling point	989,8°C +/-3,8°C

III. Analysis

	powder	other forms
Te	99,5%	99,5%
Se	< 200 ppm	< 200 ppm
Cu	< 50 ppm	< 50 ppm
As	< 50 ppm	< 20 ppm
Pb	< 100 ppm	< 50 ppm
Ca	< 500 ppm	< 20 ppm
Fe	< 200 ppm	< 50 ppm

IV. Available formats and packing

Packing	
Powder	50kg polyethylene plastic bag in metal drums
Lumps	polyethylene lined metal drums
Ingots	100/500kg plywood boxes
Sticks	100/500kg plywood boxes
Shots	50kg polyethylene plastic bag in metal drums

V. Additional Information

Handling

May be melted in a quartz, vycor or pyrex boat under a non-oxidizing atmosphere.
Te oxidises at room temperature if stored in humid conditions.
Tellurium inhaling or swallowing causes garlic breath and perspiration.

Materials safety data sheet (MSDS)

Available upon request.