

# Technical Data Sheet

TDS SeTG 3N JAN-2008



## Selenium Technical Grade 3N

### I. Principal Uses

Glass colouring or decolouring, improving steel machinability, additive in production of Electrolytic Manganese Metal, additive in animal feed, coloured pigments, chemicals, refining the metal grains in the grid of lead batteries.

### II. Physical Data

Morphology powder	Crystalline, hexagonal
Morphology shots	Amorphous, vitreous
Apparent density	± 1,6 g/cm <sup>3</sup> for 100 mesh sieved powder ± 1,2 g/cm <sup>3</sup> for 200 mesh sieved powder
Density (Pure Se)	4,80 g/cm <sup>3</sup>
Transition temperatures	
Melting point	217 °C
Boiling point	685 °C
Forms	powder 100 mesh sieved or 200 mesh sieved shots Ø 1 – 5 mm

### III. Analysis

<b>Se</b>	<b>99,9% min.</b>
As	≤ 100 ppm
Te	≤ 100 ppm
Pb	≤ 200 ppm
Cu	≤ 20 ppm
Hg	≤ 50 ppm
Ni	≤ 20 ppm
Na	≤ 10 ppm
Sb	≤ 20 ppm
Sn	≤ 20 ppm
Fe	≤ 50 ppm
Bi	≤ 50 ppm
S	≤ 100 ppm
Si	≤ 20 ppm
Halogen	≤ 50 ppm

**Sum of all elements < 1000 ppm**

**IV. Available Packing**     25 kg net weight polyethylene bag in metal drum

### V. Additional Information

#### Handling

To maintain good quality, selenium should be stored in a cool, dry and non-oxidizing place. Temperatures (especially for shots) not to exceed 21 degrees Celsius.

Selenium is to be stowed away from foodstuffs, although elemental and stable metallic selenides in massive form are relatively inert and are considered to be non-toxic.

All conditions causing highly toxic H<sub>2</sub>Se are to be avoided.

#### **Safety data sheet (MSDS):**

Available upon request.