

YTOLR

**UNITED**  
**W O L F R A M**

YELLOW TUNGSTEN OXIDE

TECHNICAL DATA SHEET

CAS NO : 1314-35-8

TUNGSTEN (VI) OXIDE (NANO POWDER) (WO<sub>3</sub>)

**PHYSICAL ANALYSIS :**

COLOUR : CANARY YELLOW-GREEN  
IGNITION : 100 % SARTORIUS GERMANY (NO LOSS)  
APPERENCE: POWDER FORM  
PARTICLE SIZE: < 100 NM (TEM)  
W PARTICLE SIZE : 0.5 M (AFTER REDUCTION)  
TUNGSTEN METAL AFTER REDUCTION : 79.3 %  
DENSITY : 1.95 gm/cm<sup>3</sup> - 3.91 g/cm<sup>3</sup> at 25 °C (lit.)  
MELTING POINT :1473 °C, 1746 K, 2683 °F  
FLASH POINT : NON-FLAMMABLE

**CHEMICAL ANALYSIS :**

M.W : 231.84 gm/mol

| PARAMETERS | SPECIFICATION |
|------------|---------------|
| Al         | < 05 ppm      |
| As         | < 10 ppm      |
| Ca         | < 10 ppm      |
| Cr         | < 30 ppm      |
| Fe         | < 20 ppm      |
| K          | < 15 ppm      |
| Mg         | < 15 ppm      |
| Mo         | < 100 ppm     |
| Na         | < 20 ppm      |
| Ni         | < 10 ppm      |
| Si         | < 25 ppm      |
| Cu         | < 10 ppm      |
| Mn         | < 15 ppm      |
| Co         | < 02 ppm      |
| Sn         | < 10 ppm      |

**PACKING :** 100 % VERGINE HIGH DENSITY BAGS 20 KG, 30 KG, 50 KG IN HDPE DRUMS

**UNITED**  
**W O L F R A M**