

Technical Data Sheet



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Tungsten oxide

Product Identification

Product name : Tungsten oxide
Chemical Formula : WO_3
CAS No. : 1314-35-8

Physical and Chemical Properties

Property	Value / Description
Purity	99.5% min
Physical State	Crystalline powder
Color	Yellow
Melting Point	1472 °C
Boiling Point	1837 °C
Solubility in Water	Insoluble
Electrical Properties	Typically an insulator; oxygen-deficient forms can be conductive
Stability	Stable under normal conditions; good thermal stability at high temperatures
Reactivity	Insoluble in organic solvents; soluble in acidic mixtures; reacts with strong bases

Applications

Gas sensors, photocatalysts, electrochromic devices, pigments for ceramics and paints, x-ray screen phosphors, fireproof fabrics, catalysts for hydrogen production, sensors for environmental monitoring, smart windows, and other high-temperature applications

Packing

25kg net in sealed containers

Shipping Regulations

Not subject to transport regulations

Safety Information

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

***The information provided herein is for reference purposes only, and the user is responsible for determining the suitability of the product for their specific application.