

TUNGSTEN OXIDE YELLOW

Description of Product Yellow powder, sometimes with a touch of green, for coating applications with electroluminescence and for the production of tungsten metal powders used in hardmetals, lamp wires or heating wires.

Chemical Characteristics¹⁾

(Mass fraction in % [cg/g]; ppm [μ g/g])

WO ₃ (calculated) ²⁾	min. 99.7 %
Al	max. 5 ppm
As	max. 4 ppm
B	max. 3 ppm
C	max. 30 ppm
Cl	max. 10 ppm
F	max. 10 ppm
Fe	max. 5 ppm
Mo	max. 10 ppm
Na	max. 5 ppm
P	max. 10 ppm
S	max. 10 ppm
Si	max. 15 ppm
V	max. 5 ppm

Physical Characteristics¹⁾

Standard Grade

Apparent density	35 – 55 g/inch ³
Fisher number (as supplied)	15 – 40 μ m
Sieve analysis +250 μ m	max. 1 %

Ultrafine Grade

Apparent density	15 – 25 g/inch ³
Fisher number (as supplied)	max. 1.2 μ m
Sieve analysis +250 μ m	max. 1 %

Packaging

Standard Grade: 1800 kg in FIBC (Big Bag) with liner.
Ultrafine Grade: 100 kg in 60 L steel drum with polyethylene bag.

Other kinds of packaging are available on request.

Storage and Handling

The user must observe all the relevant safety regulations in force in the country of use. Store in a closed container.

Documentation

An inspection document in accordance with EN 10204 is supplied with every shipment.

Hazards identification in Advertising (REGULATION (EC) No 1272/2008 Article 48)

None.

1) Information on analytical methods and list of analyzed items on request,

2) Calculated as 100% - Loss on ignition (750°C/1.5h).

REACH Registration acc. REGULATION (EC) No 1907/2006 dated December 18, 2006

H.C. Starck is taking all necessary actions under REACH in order to continue the supply of its products. All components of the HCST products are registered, pre-registered or exempted from registration. You will find the REACH Registration No. (if already assigned) in section 3 of our EU Safety Data Sheet.

Hazardous Chemicals

According to H.C. Starck's (the Company) environmental policy, to the best of the Company's knowledge, from the Company's level of awareness at date and with respect to the directives listed herein (in the **currently valid and last amended version** - which have been reviewed after its publication by Company with regard to its relevance for the Company's aforementioned product), the Company assumes that the substances regulated by said directives are not contained in the product in amounts which exceed the applicable limits. The Company does not analyse the final product with regard to these substances, before the product is sent to the customer.

- * REACH Regulation (EC) No 1907/2006 dated December 18, 2006
- * REACH Regulation (EC) No 1907/2006, List of Candidates and Appendix XIV
- * GHS/CLP Regulation (EC) No 1272/2008 dated December 16, 2008
- * Directive 2011/65/EU of the European Parliament and the Council dated June 8, 2011 in respect of the restriction of the application of certain dangerous substances in Electrical and Electronic equipment (RoHS)
- * Directive 94/62/EC of the European Parliament and the Council dated December 20, 1994 in respect of packaging and packaging waste

Conflict Free Smelter status

H.C. Starck is following the conflict free smelter program, status see
See also the H.C. Starck Group Raw Material Procurement Statement

<http://www.conflictreesourcing.org>.
<http://www.hcstarck.com>.

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