

TUNGSTEN CARBIDE HC

Description of Product HC Grades (grain size from 3 to 12 μm) are standard WC Grades that have been improved over the years. They are known as general purpose grades all over the world.

Grades Available **Product Designation**
HC 300, HC 400, HC 500, HC 600, HC 800, HC 1000, HC 1200

Chemical Characteristics

(Mass fraction in % [cg/g]; ppm [$\mu\text{g/g}$])

	Limit	
C_{total}	6.13 \pm 0.05 %	
C_{free}	max. 0.06 %	
The oxygen content depends on the particle size.		
O	max. 0.15 %	for WC HC 300 and WC HC 400
O	max. 0.07 %	for WC HC 500 up to WC HC 1200
Al	max. 20 ppm	
Ca	max. 25 ppm	
Co	max. 100 ppm	
Cr	max. 50 ppm	
Cu	max. 10 ppm	
Fe	max. 150 ppm	
Mo	max. 100 ppm	
Na	max. 20 ppm	
Ni	max. 100 ppm	
Si	max. 40 ppm	

Physical Characteristics

Grades	Fisher Number (as supplied)	Tolerances
HC 300	3.0 μm	\pm 0.3 μm
HC 400	4.0 μm	\pm 0.3 μm
HC 500	5.0 μm	\pm 0.4 μm
HC 600	6.0 μm	\pm 0.5 μm
HC 800	8.0 μm	\pm 0.5 μm
HC 1000	10.0 μm	\pm 0.5 μm
HC 1200	12.0 μm	\pm 1.0 μm

Packaging

- 50 kg in 18 l steel drums with PE-bags
Packaging unit = 400 kg in 8 drums on CP1 pallet.
- 100 kg in 30 l steel drums with PE-bags
Packaging unit = 800 kg in 8 drums on CP1 pallet.

Other kinds of packaging are available on request.

Storage and Handling Storage and handling are subject to the rules and regulations in the country of use.

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.

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 <http://www.conflictreesourcing.org>
see also the H.C. Starck Group Raw Material Procurement Statement <http://www.hcstarck.com>

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