

TUNGSTEN METAL POWDER (HC-GRADE)

Description of Product WMP HC (1.5 to 20.0 µm): The well-known standard grades are mainly used as alloying element in superalloys, raw material for cemented carbide production, diamond tools, W-Cu/Ag infiltration composites, unalloyed tungsten rods and wires.

Grades Available **Product Designation**
WMP HC

Chemical Characteristics¹⁾

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

	Range		Oxygen		[%]
	min.	max.	HC		
W	99.95	% ²⁾	150		max. 0.15
Al	10	ppm	250		max. 0.12
Ca	10	ppm	300		max. 0.12
Cr	80	ppm	350		max. 0.1
Cu	5	ppm	400		max. 0.1
Fe	100	ppm	500		max. 0.1
Mo	100	ppm	600		max. 0.1
Na	20	ppm	700		max. 0.1
Ni	100	ppm	800		max. 0.08
Si	30	ppm	HC 1000		max. 0.08
			HC 1200		max. 0.08
			HC 1500		max. 0.08
			HC 2000		max. 0.08

Physical Characteristics

Fisher Number (as supplied)	Tolerances [µm]		Tap volume ³⁾ [cm ³ /100g]		Apparent density ⁴⁾ [g/inch ³]	
	min.	max.	min.	max.	min.	max.
HC 150	1.5	±0.2	15	25	30	50
HC 250	2.5	±0.2	12	22	35	60
HC 300	3.0	±0.2	12	20	45	65
HC 350	3.5	±0.2	11	19	48	68
HC 400	4.0	±0.2	11	19	52	72
HC 500	5.0	±0.5	10	18	60	80
HC 600	6.0	±0.5	10	18	60	90
HC 700	7.0	±0.5	10	16	65	95
HC 800	8.0	±1.0	10	16	65	95
HC 1000	10.0	±1.0	9	16	70	110
HC 1200	12.0	±1.0	9	16	75	115
HC 1500	15.0	±2.0	9	16	80	120
HC 2000	20.0	±3.0	9	16	90	120

1) Information on chemical analytical methods and list of analyzed items on request, 2) Oxygen content excluded.
3) TAP-PAK VOLUMETER per ASTM B 527, 4) SCOTT-VOLUMETER per ASTM B 329.

Packaging	50kg in 18 l steel drums with PE-bags. 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.
Hazards identification in Advertising (REGULATION (EC) No 1272/2008 Article 48)	HC 150: Flammable solids Category 1 HC 250: Flammable solids Category 2 HC 300 – HC 2000: None.
Documentation	An inspection document in accordance with EN 10204

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