H.C. Starck
TUNGSTEN POWDERS
A Group Company of MITSUBISHI MATERIALS

Tungsten Metal Powders

Number PD-1201
Issue 11-16.10.2025

W
HC S
0.7 – 2.5 µm

TUNGSTEN METAL HC S

Description of Product

In comparison with the standard W HC grades this product line shows a very narrow particle size distribution. These grades are generally recommended for hardmetal, medical and electronic applications.

Physical Characteristics

Grades	Fisher number (as supplied)	Tap volume (cm^3/100g)		Apparent density (g/inch^3)	
		min.	max.	min.	max.
HC 70 S	0.60 - 0.80 µm	15	23	35	45
HC 120 S	1.10 - 1.30 µm	12	18	40	60
HC 170 S	1.50 - 1.90 µm	12	18	50	70
HC 250 S	2.2 - 2.8 µm	10	15	60	80

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Chemical Characteristics

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

W	min.	99.95	%[1)]
Al	max.	10	ppm
Ca	max.	10	ppm
Cr	max.	80	ppm
Cu	max.	5	ppm
Fe	max.	100	ppm
Mo	max.	100	ppm
Na	max.	20	ppm
Ni	max.	100	ppm
Si	max.	30	ppm

Oxygen	[%]
HC 70 S	max. 0.5
HC 120 S	max. 0.25
HC 170 S	max. 0.20
HC 250 S	max. 0.15

Packaging 50 kg in 18 l or 100 kg in 30 l steel drums with PE-bags.

[1]) Oxygen content excluded