TECHNICAL DATA SHEET

TUNGSTEN POWDER

Tungsten Powder has a number of valuable uses in today's world. Tungsten Powder is used in electrical contacts, airbag deployment systems, and as the beginning material in tungsten mill products and wire. Tungsten powder is also used in particle guns for genetic modification of plants and vegetables and in radiation compensators.

Alldyne makes high purity tungsten powder for all these applications and more, always interested in new applications. Please contact us if you are investigating a new use, or have any questions regarding tungsten powder.

All powder is commercially uniform in purity. The Chemical and Physical Analyses are determined for each production lot of powder by using commercially accepted methods. The results of all relevant tests are reported to the customer on a Certificate of Analysis.

PACKAGING:

50 kg/100 lb packed in a polyethylene bag within a 3½-gallon plastic pail, or 250 kg/500 lb packed in a polyethylene bag within a 17-gallon drum, or as requested by the customer.

		W1	W2	W3	W4	W5	W6	W7	W8
PHYSICAL ANALYSIS	Fisher Sub Sieve Sizer (µm)	0.50 – 0.99	1.00 – 1.59	1.60 – 1.99	2.00 – 3.99	4.00 – 5.99	6.00 – 8.99	9.00 – 11.99	12.00 – 25.00
	Lab Mill FSSS	reported	reported	reported	reported	reported	reported	reported	reported
	Scott Density (g/in3)*	20 - 40	25 - 50	30 - 60	35 - 75	40 - 95	40 - 95	50 - 100	60 - 110
MESH ANALYSIS	Mesh	>100	>100 <100	>100 <100	>200 <200	>200 <200	>200 <200	>200 <200	>200 <200
	Wt%	0-2% 98% Min.	0-2% 98% Min.	0-2% 98% Min.	0-2% 98% Min.	0-2% 98% Min.	0-2% 98% Min.	0-2% 98% Min.	0-2% 98% Min.
CHEMICAL ANALYSIS	Al Wt%	≤0.004	≤0.003	≤0.003	≤0.003	≤0.003	≤0.003	≤0.003	≤0.003
	Co Wt%	≤0.002	≤0.002	≤0.002	≤0.002	≤0.002	≤0.002	≤0.002	≤0.005
	Cr Wt%	≤0.002	≤0.002	≤0.002	≤0.002	≤0.002	≤0.005	≤0.010	≤0.020
	Ct Wt%	≤0.010	≤0.010	≤0.005	≤0.003	≤0.003	≤0.003	≤0.003	≤0.003
	Cu Wt%	≤0.002	≤0.002	≤0.002	≤0.002	≤0.002	≤0.002	≤0.002	≤0.005
	Fe Wt%	≤0.005	≤0.005	≤0.005	≤0.005	≤0.005	≤0.010	≤0.020	≤0.050
	K Wt%	≤0.002	≤0.002	≤0.002	≤0.002	≤0.002	≤0.002	≤0.002	≤0.002
	Mo Wt%	≤0.010	≤0.010	≤0.010	≤0.010	≤0.010	≤0.010	≤0.020	≤0.020
	Ni Wt%	≤0.003	≤0.003	≤0.003	≤0.005	≤0.005	≤0.005	≤0.010	≤0.020
	O2 Wt%	≤0.350	≤0.200	≤0.200	≤0.080	≤0.080	≤0.070	≤0.070	≤0.070
	W Wt%**	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.8%

* Customer Specified Limits Available. Tap Density Analysis Per Request. Particle Distribution by Sedigraph Per Request

** Excluding Gases

Typical Particle Distribution Sedigraph Analysis for C-3U

	MICRON SIZE				
	0-1	1-2	2-3	3-4	>4
WT %	>85	1-10	≤2	≤2	2.5
TYPICAL WT%	94	3	1	1	1