



Mob.: 8452810712
8800903073

ULTRANANOTECH PVT. LTD.

Materials Beyond Imagination

B-205, Prime Blue Forest, Rajapallya, Hoodi, Bangalore - 560048

Web. : www.ultrananotec.com | E-mail : info@ultrananotec.com, sales@ultrananotec.com

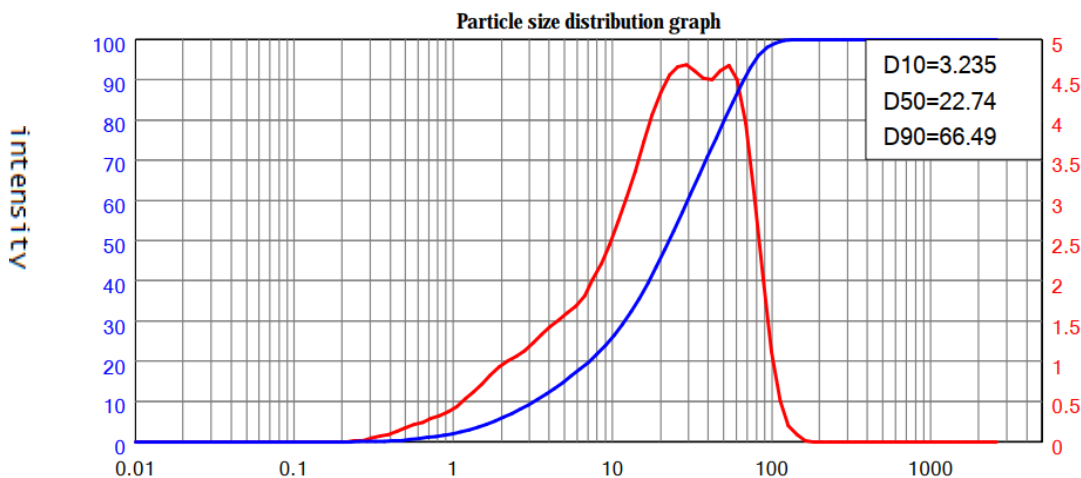
Quality Certificate for Vanadium Aluminum Carbide Powder

Lot No.	Shop Sign	Chemical Composition (%)				D50 : 22.74 um	Weight (KG)	
		Al	C	V	Other Impurity allowance		Piece	N.W
20220227-15	V ₂ AIC	190	8.3	72.2	0.5		10	10
To:								
Quality Stamp			Executive Standards: Contract			Inspection Date: 2022/02/24		

Bettersizer 2600(Wet) Particle Size Analysis Report

Range: 0.02um-2600um

Sample : V2AIC	Particle AR: 1		Medium RI: 1.333	
Operator : LC	Mode: Multi -Peak		Distribution: Volume	
Article RI: 2.86	Speed (rpm): 1600		Ultrasound: Always ON(45s,Os)	
Optical: Mie	Dispersant: Na (PO3)6		Remark:	
Sampling: Dry Powder	D[4,3]: 29.60 UM		Peek Size: 27.33 um	
Medium: Water	D;3,2}: 7.645 um		obscuration: 9.72%	
	D[1,0]: 0.643 um			
	SSA: 2907m ² /kg			
	Residual: 0.937 %			
D03: 1.285 um	D06 = 2.057 um	D10 = 3.235 um	D16 = 5.399 um	D25 = 9.494 um
D75 = 44.39 um	D50 = 22.74 um	D98 = 93.26 um	D90 = 66.49 um	D97 = 87.47 um



Table

Diam um	Percent
0.000-0.500	0.43
0.500-1.000	1.57
1.000-2.000	3.78
2.000-5.000	9.23
5.000-10.00	11.04
10.00-20.00	19.31
20.00-45.00	30.16
45.00-75.00	18.19
75.00-100.0	4.99
100.0-200.0	1.30

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Particle size distribution table

Diam um	Diff%	Cum%	Diam um	Diff%	Cum%	Diam um	Diff%	Cum%	Diam um	Diff%	Cum%
0.010-0.011	0.00	0.00	0.254-0.287	0.01	0.02	5.519-6.242	1.69	17.99	119.7-135.4	0.20	99.90
0.011-0.013	0.00	0.00	0.287-0.325	0.04	0.06	6.242-7.060	1.81	19.80	135.4-153.2	0.09	99.99
0.013-0.014	0.00	0.00	0.325-0.367	0.07	0.13	7.060-7.985	2.02	21.82	153.2-173.3	0.01	100.00
0.014-0.017	0.00	0.00	0.367-0.416	0.09	0.22	7.985-9.031	2.21	24.03	173.3-196.0	0.00	100.00
0.017-0.019	0.00	0.00	0.416-0.470	0.13	0.35	9.031-10.21	2.45	26.48	196.0-221.6	0.00	100.00
0.019-0.022	0.00	0.00	0.470-0.532	0.17	0.52	10.21-11.55	2.74	29.22	221.6-250.7	0.00	100.00
0.022-0.025	0.00	0.00	0.532-0.602	0.21	0.73	11.55-13.06	3.03	32.25	250.7-283.5	0.00	100.00
0.025-0.028	0.00	0.00	0.602-0.680	0.24	0.97	13.06-14.77	3.36	35.61	283.5-320.7	0.00	100.00
0.028-0.033	0.00	0.00	0.680-0.770	0.29	1.26	14.77-16.71	3.74	39.35	320.7-362.7	0.00	100.00
0.033-0.037	0.00	0.00	0.770-0.871	0.32	1.58	16.71-18.90	4.06	43.41	362.7-410.2	0.00	100.00
0.037-0.043	0.00	0.00	0.871-0.985	0.37	1.95	18.90-21.37	4.34	47.75	410.2-464.0	0.00	100.00
0.043-0.049	0.00	0.00	0.985-1.114	0.43	2.38	21.37-24.18	4.56	52.31	464.0-524.7	0.00	100.00
0.049-0.056	0.00	0.00	1.114-1.260	0.53	2.91	24.18-27.34	4.66	56.97	524.7-593.5	0.00	100.00
0.056-0.064	0.00	0.00	1.260-1.425	0.62	3.53	27.34-30.93	4.69	61.66	593.5-671.2	0.00	100.00
0.064-0.073	0.00	0.00	1.425-1.611	0.72	4.25	30.93-34.98	4.61	66.27	671.2-759.2	0.00	100.00
0.073-0.083	0.00	0.00	1.611-1.822	0.83	5.08	34.98-39.56	4.52	70.79	759.2-858.6	0.00	100.00
0.083-0.095	0.00	0.00	1.822-2.061	0.93	6.01	39.56-44.74	4.50	75.29	858.6-971.1	0.00	100.00
0.095-0.108	0.00	0.00	2.061-2.331	1.00	7.01	44.74-50.60	4.61	79.90	971.1-1098	0.00	100.00
0.108-0.121	0.00	0.00	2.331-2.637	1.06	8.07	50.60-57.23	4.68	84.58	1098-1242	0.00	100.00
0.121-0.137	0.00	0.00	2.637-2.982	1.13	9.20	57.23-64.73	4.50	89.08	1242-1404	0.00	100.00
0.137-0.155	0.00	0.00	2.982-3.373	1.23	10.43	64.73-73.21	3.95	93.03	1404-1589	0.00	100.00
0.155-0.175	0.00	0.00	3.373-3.815	1.33	11.76	73.21-82.80	3.03	96.06	1589-1797	0.00	100.00
0.175-0.198	0.00	0.00	3.815-4.315	1.43	13.19	82.80-93.65	2.01	98.07	1797-2032	0.00	100.00
0.198-0.224	0.00	0.00	4.315-4.880	1.51	14.70	93.65-105.9	1.12	99.19	2032-2298	0.00	100.00
0.224-0.254	0.01	0.01	4.880-5.519	1.60	16.30	105.9-119.7	0.51	99.70	2298-2600	0.00	100.00



particle size (um)

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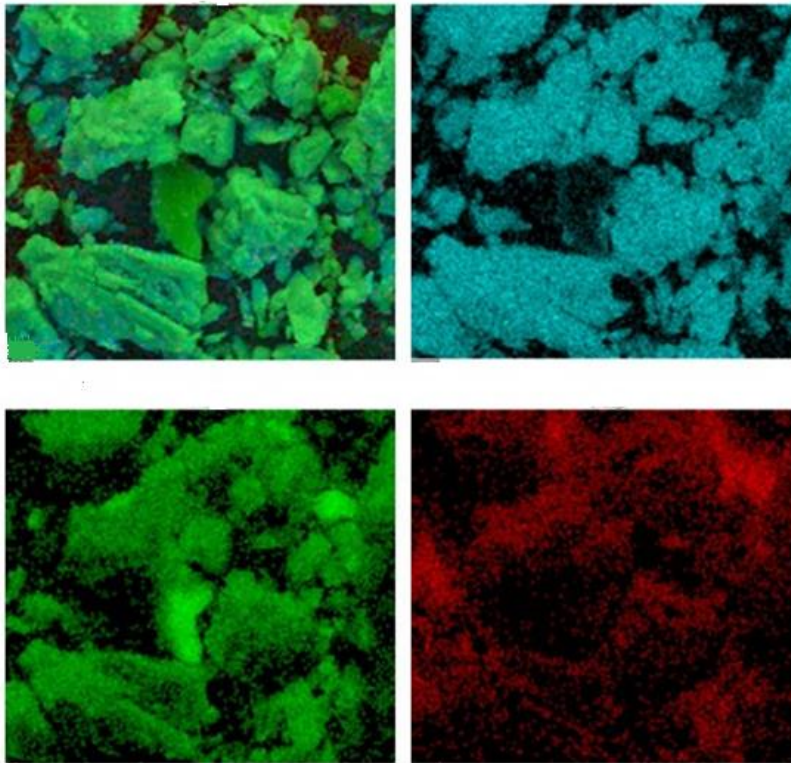
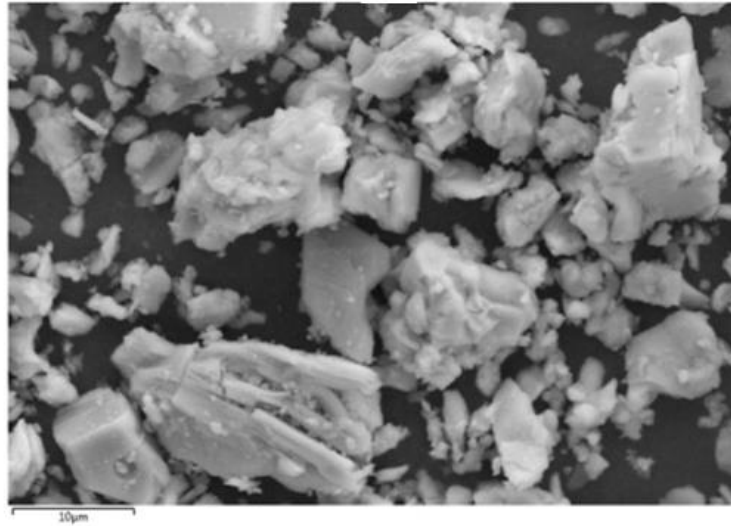
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Web. : w

10 µm

EHT = 15.00 kV

Signal A = SE2

Brightness = 49.1 %

WD = 6.2 mm

Mag = 1.00 K X

Contrast = 37.0 %





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Commander Sample ID (Coupled TwoTheta/Theta)

