Note Horiba can only measure Powders in Solution - Cannot measure HgO because it is HYDROPHYLIC and the Properties Change when in Solution.

HORIBA LA-910 for Windows(TM) [WET(LA-910)] Ver.3.72

LA-910 system for Windows

Horiba Laboratory
34 Bunsen Drive
Irvine, CA 92618
Phone: (800)446-7422
Fax: (949)468-1790

Filename :FeCrLi Powder_B Note - There is no Correlation
ID# :201012231053039 Or Conversion Chart to
ISO 9276-1 Format :OFF
Sample Name :FeCrLi Powder Measure Horiba with other Instruments
Material :FeCrLi
Source :RJ Lee

Lamp T% : 93.1(%)
Calc. Level :10

Circulation Speed :5
Ultra sonic :OFF
Agitation Speed :OFF
Laser T% : 91.9(%)
Calc. Level :10
R.R.Index :FE

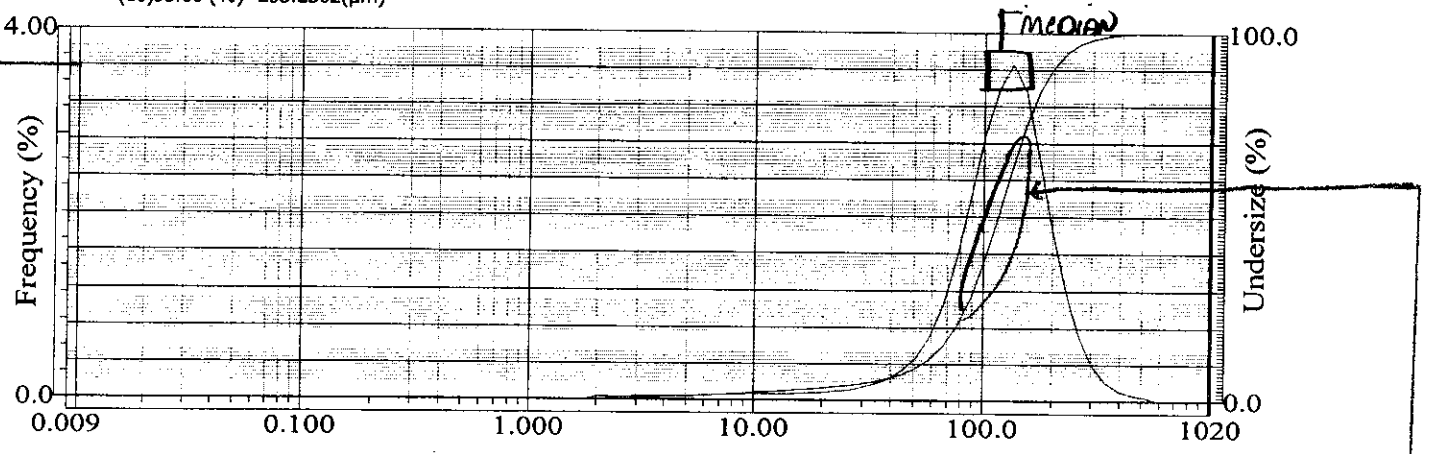
Lamp T% : 93.1(%)

S.P. Area : 925.31(cm² /cm³) Span : 1.2373
Median : 115.9908(μm)
Mean : 123.0491(μm)
Mode : 124.3178(μm)

Variance : 3853.3(μm²)
S.D. : 62.0746(μm)
CV : 50.4470
Geo. Mean : 104.0881(μm) D-50
Chi-2 : 0.030544

Diameter on % :(1)5.000 (%)- 32.4418(μm)
(2)10.00 (%)- 54.7631(μm) D-10 = 10% means 10% are "Finer" and 90% are "Coarser"
(3)20.00 (%)- 76.5107(μm)
(4)30.00 (%)- 90.7479(μm)
(5)40.00 (%)- 103.4153(μm) } D-50
(6)60.00 (%)- 128.9893(μm)
(7)70.00 (%)- 144.3819(μm)
(8)80.00 (%)- 164.8102(μm)
(9)90.00 (%)- 198.2767(μm) D-90 = 90% means 10% are Coarser and 90% are Finer
(10)95.00 (%)- 233.2502(μm)

$$\text{SPAN} = \frac{\text{D-10 MINUS D-90}}{\text{D-50}}$$



No.	Diameter	Freq. %	Under %	No.	Diameter	Freq. %	Under %	No.	Diameter	Freq. %	Under %	No.	Diameter	Freq. %	Under %
1	0.022	0.000	0.000	23	0.445	0.000	0.000	45	8.816	0.222	1.854	67	174.616	9.216	83.924
2	0.026	0.000	0.000	24	0.510	0.000	0.000	46	10.097	0.227	2.081	68	200.000	6.490	90.414
3	0.029	0.000	0.000	25	0.584	0.000	0.000	47	11.565	0.231	2.312	69	229.075	4.250	94.663
4	0.034	0.000	0.000	26	0.669	0.000	0.000	48	13.246	0.237	2.549	70	262.376	2.529	97.192
5	0.039	0.000	0.000	27	0.766	0.000	0.000	49	15.172	0.249	2.798	71	300.518	1.369	98.561
6	0.044	0.000	0.000	28	0.877	0.000	0.000	50	17.377	0.268	3.066	72	344.206	0.707	99.268
7	0.051	0.000	0.000	29	1.005	0.000	0.000	51	19.904	0.299	3.365	73	394.244	0.393	99.661
8	0.058	0.000	0.000	30	1.151	0.000	0.000	52	22.797	0.343	3.708	74	451.556	0.218	99.879
9	0.067	0.000	0.000	31	1.318	0.000	0.000	53	26.111	0.408	4.116	75	517.200	0.121	100.000
10	0.076	0.000	0.000	32	1.510	0.000	0.000	54	29.907	0.502	4.618	76	592.387	0.000	100.000
11	0.087	0.000	0.000	33	1.729	0.000	0.000	55	34.255	0.637	5.255	77	678.504	0.000	100.000
12	0.100	0.000	0.000	34	1.981	0.102	0.102	56	39.234	0.840	6.096	78	777.141	0.000	100.000
13	0.115	0.000	0.000	35	2.269	0.108	0.210	57	44.938	1.152	7.248	79	890.116	0.000	100.000
14	0.131	0.000	0.000	36	2.599	0.114	0.324	58	51.471	1.643	8.891	80	1019.515	0.000	100.000
15	0.150	0.000	0.000	37	2.976	0.122	0.445	59	58.953	2.427	11.318	81	1020.000	0.000	100.000
16	0.172	0.000	0.000	38	3.409	0.130	0.576	60	67.523	3.658	14.976				
17	0.197	0.000	0.000	39	3.905	0.140	0.716	61	77.339	5.457	20.433				
18	0.226	0.000	0.000	40	4.472	0.152	0.869	62	88.583	7.762	28.196				
19	0.259	0.000	0.000	41	5.122	0.167	1.036	63	101.460	10.141	38.337				
20	0.296	0.000	0.000	42	5.867	0.183	1.219	64	116.210	11.828	50.164				
21	0.339	0.000	0.000	43	6.720	0.200	1.419	65	133.103	12.796	62.960				
22	0.389	0.000	0.000	44	7.697	0.213	1.632	66	152.453	11.748	74.708				

D-90 90.414%

D-50 50.164%

The Steeper the 'Curve' The tighter the Particle Size Distribution. In this example the curve is Very Long At both ends Indicating a Lot of Small & Lot of Large Particles