

Application Data: Chemical Industry

Computrac® Vapor Pro® Moisture Specific Analyzer

Green Karl Fischer Alternative

MATERIAL	RESULT	COMPUTRAC®	STATISTIC	OVEN/KARL FISCHER
Acetal	ppm Moisture	382	Mean	348
		22	Standard Deviation	25
Alumina Sintered Pellets	ppm Moisture	79	Mean	71
		3	Standard Deviation	5
Ammonium Bentonite Powder	% Moisture	0.914	Mean	0.923
		0.024	Standard Deviation	0.064
		6–7 minutes	Test Time	2 hours
Anti-Oxidant	ppm Moisture	343	Mean	341
		6	Standard Deviation	5
Bismuth Sub Carbonate	% Moisture	0.205	Mean	0.203
		0.006	Standard Deviation	0.012
Calcined Coke	ppm Moisture	37	Mean	40
		2	Standard Deviation	2
Carbon Black	ppm Moisture	59.2	Mean	56.6
		32.1	Standard Deviation	26.6
Citric Acid	ppm Moisture	336	Mean	325
		15	Standard Deviation	10
Ethanol	% Moisture	7.290	Mean	7.570
		0.126	Standard Deviation	0.023
Fiberglass	ppm Moisture	366	Mean	340
		12	Standard Deviation	16
Film Strip	% Moisture	7.893	Mean	7.818
		0.139	Standard Deviation	0.238
Glass/Epoxy Prepreg	ppm Moisture	640	Mean	635
		16	Standard Deviation	20
Hydrogenated I-Decene	ppm Moisture	23	Mean	23
		4	Standard Deviation	2
Hydrogenated I-Dodecene	ppm Moisture	20	Mean	22
		2	Standard Deviation	2
Iron Powder	ppm Moisture	684	Mean	689
		32	Standard Deviation	23
		5 minutes	Test Time	To constant weight

Lithium Cobalt Dioxide	ppm Moisture	129 8	Mean Standard Deviation	112 11
Lithium Complex Grease	ppm Moisture	636 22	Mean Standard Deviation	637 44
Lithium Compound	ppm Moisture	581 24	Mean Standard Deviation	580 40
Lithium Nickel Cobalt Dioxide	ppm Moisture	734 22	Mean Standard Deviation	715 18
Lithium Phosphate Monobasic	% Moisture	0.131 0.006	Mean Standard Deviation	0.130 0.002
Lithium Vanadium Oxide	ppm Moisture	518 16	Mean Standard Deviation	512 18
Neoprene	% Moisture	0.376 0.012	Mean Standard Deviation	0.354 0.004
Nitroxyl Mixture	% Moisture	0.548 0.014	Mean Standard Deviation	0.586 0.029
Petroleum-Based Product	% Moisture	0.864 0.089	Mean Standard Deviation	0.916 0.122
Industrial Pigment	% Moisture	0.322 0.012 9 minutes	Mean Standard Deviation Test Time	0.317 0.012 Customer provided
Industrial Pigment	% Moisture	0.122 0.005 5 minutes	Mean Standard Deviation Test Time	0.120 0.010 Customer provided
Industrial Pigment	% Moisture	0.175 0.007 6–7 minutes	Mean Standard Deviation Test Time	0.167 0.015 Customer provided
Iron-Based Pigment	% Moisture	0.142 0.003	Mean Standard Deviation	0.144 0.002
Potassium Chloride	ppm Moisture	745 32	Mean Standard Deviation	767 61
Potassium Citrate	% Moisture	5.562 0.134 7–8 minutes	Mean Standard Deviation Test Time	5.682 0.166 26 minutes
Potassium Tartrate Hemihydrate	% Moisture	3.824 0.072	Mean Standard Deviation	3.820 0.038
Powder Surface Coating Alloy	ppm Moisture	14 2 7 minutes	Mean Standard Deviation Test Time	17 1 2 hours

Powder Surface Coating Alloy	ppm Moisture	7 1 5 minutes	Mean Standard Deviation Test Time	12 1 2 hours
Rubber Solution	% Moisture	0.131 0.005	Mean Standard Deviation	0.129 0.013
Sodium Bicarbonate	ppm Moisture	878 44 8 minutes	Mean Standard Deviation Test Time	810 210 2 hours
Sodium Chloride	ppm Moisture	169 10 6–7 minutes	Mean Standard Deviation Test Time	294 135 2 hours
Sodium Chloride	% Moisture	0.214 0.017 10 minutes	Mean Standard Deviation Test Time	0.206 0.027 2 hours
Sodium Chloride	ppm Moisture	21 4 1–2 minutes	Mean Standard Deviation Test Time	12 3 2 hours
Succinic Acid	% Moisture	1.010 0.006	Mean Standard Deviation	1.044 0.028
Surfactant	% Moisture	0.170 0.003	Mean Standard Deviation	0.174 0.009
Suture	ppm Moisture	323 80	Mean Standard Deviation	336 140
Synthetic Sutures	ppm Moisture	742 0, n=2	Mean Standard Deviation	736 60
Titanium Dioxide, Zinc Oxide	% Moisture	0.410 0.012	Mean Standard Deviation	0.401 0.018
Wax	% Moisture	0.083 0.001	Mean Standard Deviation	0.086 0.003
Paraffin Wax with Fragrance	% Moisture	0.015 0.001	Mean Standard Deviation	0.015 0.002
Zinc Borate Hydrate	% Moisture	0.133 0.006	Mean Standard Deviation	0.125 0.001
Zinc Powder	% Moisture	2.245 0.082	Mean Standard Deviation	2.249 0.042



ARIZONA INSTRUMENT LLC

3375 N. Delaware Street, Chandler, AZ 85225 • (602) 470-1414 • (800) 528-7411 • www.azic.com

Exclusive Manufacturer of Computrac® Moisture Analyzers and Jerome® Toxic Gas Analyzers