

Application Data: Gypsum Industry

Computrac[®] MAX[®] 2000XL Moisture/Solids Analyzer

MATERIAL	RESULT	COMPUTRAC [®]	STATISTIC	OVEN/MUFFLE
Gypsum Rock	% Moisture	0.125	Mean	0.123
		0.006	Standard Deviation	0.009
		3 minutes	Test Times	1 hour
Gypsum Rock	% Moisture	17.038	Mean	17.131
		0.802	Standard Deviation	0.274
		8-11 minutes	Test Times	16 hours
Gypsum, Stucco	% Moisture	6.583	Mean	6.515
		0.019	Standard Deviation	0.030
		0.296	Test Times	4 hours
Synthetic FGD Combined Gypsum	% Moisture	20.101	Mean	20.130
		0.018	Standard Deviation	0.006
		7-8 minutes	Test Times	4 hours
Synthetic FGD Gypsum	% Moisture	10.709	Mean	11.134
		0.105	Standard Deviation	0.010
		11-12 minutes	Test Times	4 hours
Free Gypsum	% Moisture	0.082	Mean	0.082
		0.007	Standard Deviation	0.008
		2 minutes	Test Times	4 hours
Dihydrate Gypsum	% Moisture	19.420	Mean	19.638
		0.012	Standard Deviation	0.004
		6 minutes	Test Times	4 hours
Free Natural Gypsum	% Moisture	0.073	Mean	0.073
		0.010	Standard Deviation	0.010
		2-3 minutes	Test Times	24 hours
Combined Natural Gypsum	% Moisture	19.514	Mean	19.585
		0.034	Standard Deviation	0.005
		7 minutes	Test Times	4 hours

Free and Bound Moisture Determination for Gypsum

The Computrac® MAX® 2000XL Programmable High Performance Moisture Analyzer employs an automated, two-step process, which allows the user to identify both free and bound moisture in one easy step.

The MAX® 2000XL links two memory start programs together, at the user's discretion. The first step allows for free moisture to be removed from the sample at a low temperature; the second step re-weighs the sample and removes the bound moisture at a higher temperature. The user can program in a purity factor to allow the instrument to calculate percent purity for gypsum samples.

Typical test times range from 3-4 minutes for the free process and up to 5-10 minutes for the bound process, depending upon the type of gypsum being tested. The unique features of the instrument allow both free and bound moisture results to be viewed on the instrument's LCD panel.

In addition to this special program, the flexibility of the MAX® 2000XL enables the operator to use the standard features of the programmable high performance moisture analyzer for other types of moisture analyses.



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