



GYPSUM ANALYSIS RESULTS

Test	Result
1- Color	Homogenous Brightness White
2- Fineness: Residual on 180 μm (%)	1.5
3- Water consist (%)	62
4- Initial Setting time (min)	14 min 30 sec
Final Setting time (min)	25 min 20 sec
5- Density (kg/m^3)	925
6- Thermal Conductivity W/(m-k)	0.27
7- Compressive strength (N/mm^2)	11.6
8- Breaking strength (N/mm^2)	2.37
9- Reaction to fire	Non flammable
10- Fire resistance (after 2 hour)	Pass at 750 $^{\circ}\text{C}$
11- Surface hardness (N/mm^2)	7.46
12- Adhesive strength (N/mm^2)	0.35
13- Calcium sulfate Content (%)	92.1
14- CO_2 (%)	0.38
15- Uncombined water (%)	0.65
16- Combined water (%)	6
17- NaOH (%)	0.63
18- Na_2O (%)	0.17
19- K_2O (%)	0.05

