

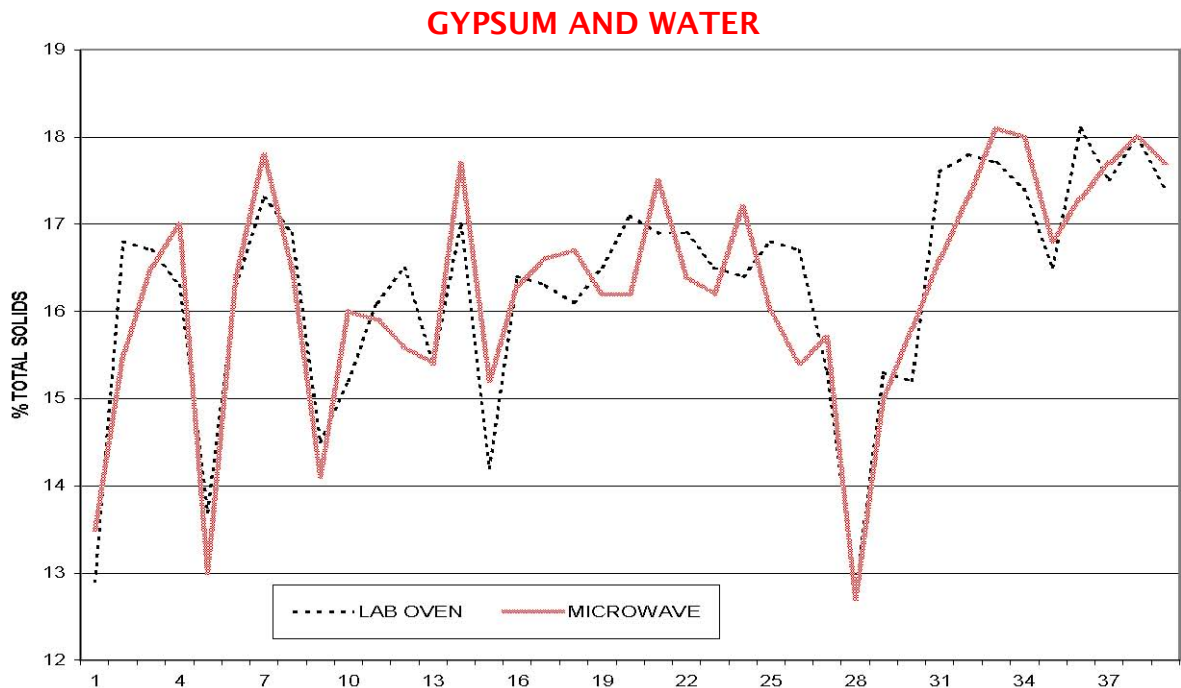
INDUSTRY: CONSTRUCTION GYPSUM WALLBOARD

APPLICATION: TO MEASURE % TOTAL SOLIDS OF A GYPSUM AND WATER MIXTURE

HK INSTRUMENT: HK1-M

TESTING: SAMPLES WERE COLLECTED FROM THE PIPE DURING A ONE MONTH PERIOD. THE COLLECTED SAMPLES WERE TAKEN TO THE LAB AND DRIED IN A MICROWAVE OVEN. READINGS FROM THE MICROWAVE SYSTEM WERE RECORDED AT THE SAME TIME SAMPLES WERE COLLECTED.

RESULTS: CORRELATION BETWEEN THE HK-1 MICROWAVE INSTRUMENT READINGS AND THE LAB MICROWAVE OVEN CALCULATIONS IS VERY GOOD. THE MICROWAVE SYSTEM WILL TRACK THE LAB OVEN OVER A LONG TIME PERIOD WITHOUT ANY DRIFT.



CONCLUSIONS: THE HK-1 MICROWAVE INSTRUMENT SYSTEM IS A VERY GOOD TOOL THAT CAN BE USED TO MONITOR AND CONTROL THE % TOTAL SOLIDS OF A GYPSUM AND WATER MIXTURE.