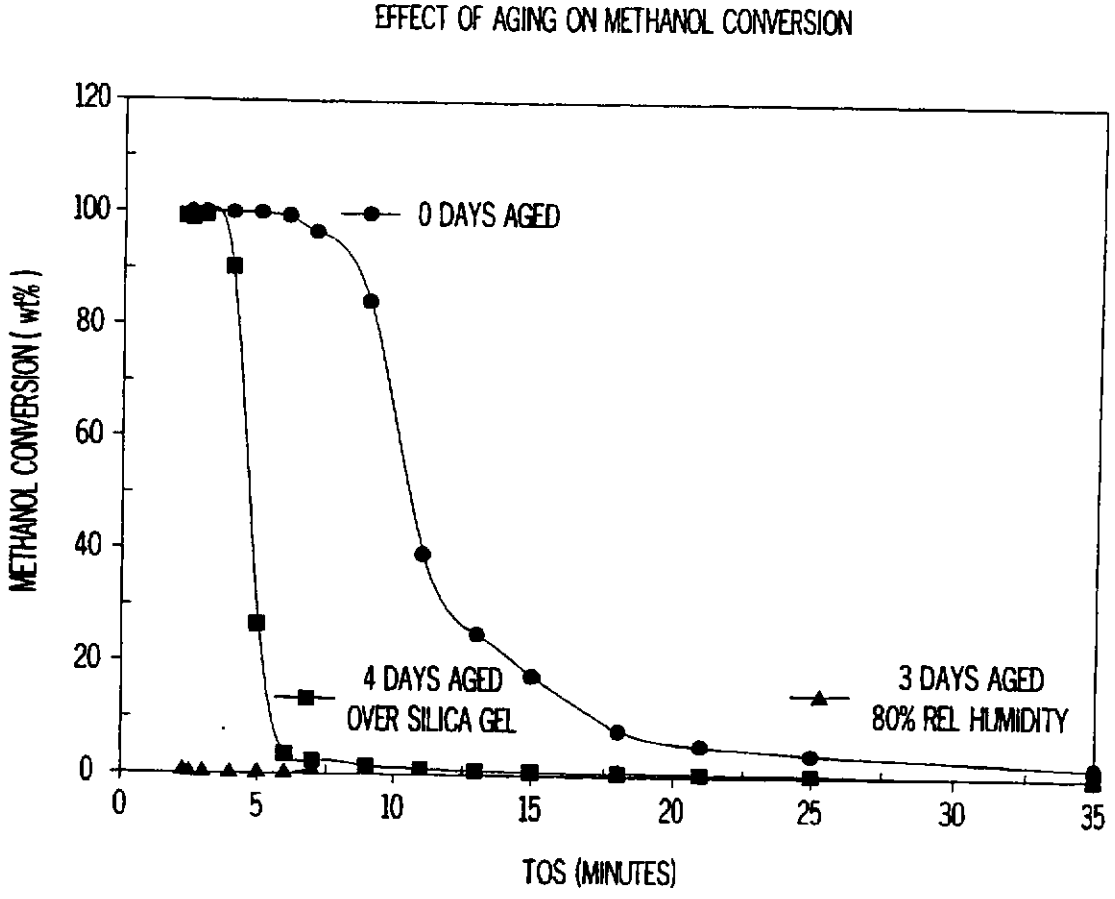

EFFECT OF AGING ON METHANOL CONVERSION
METHANOL CONVERSION (wt%)
TOS (MINUTES)
0 DAYS AGED
4 DAYS AGED
OVER SILICA GEL
3 DAYS AGED
80% REL HUMIDITY
120
100
80
60
40
20
0
0
5
10
15
20
25
30
35

FIG. 1

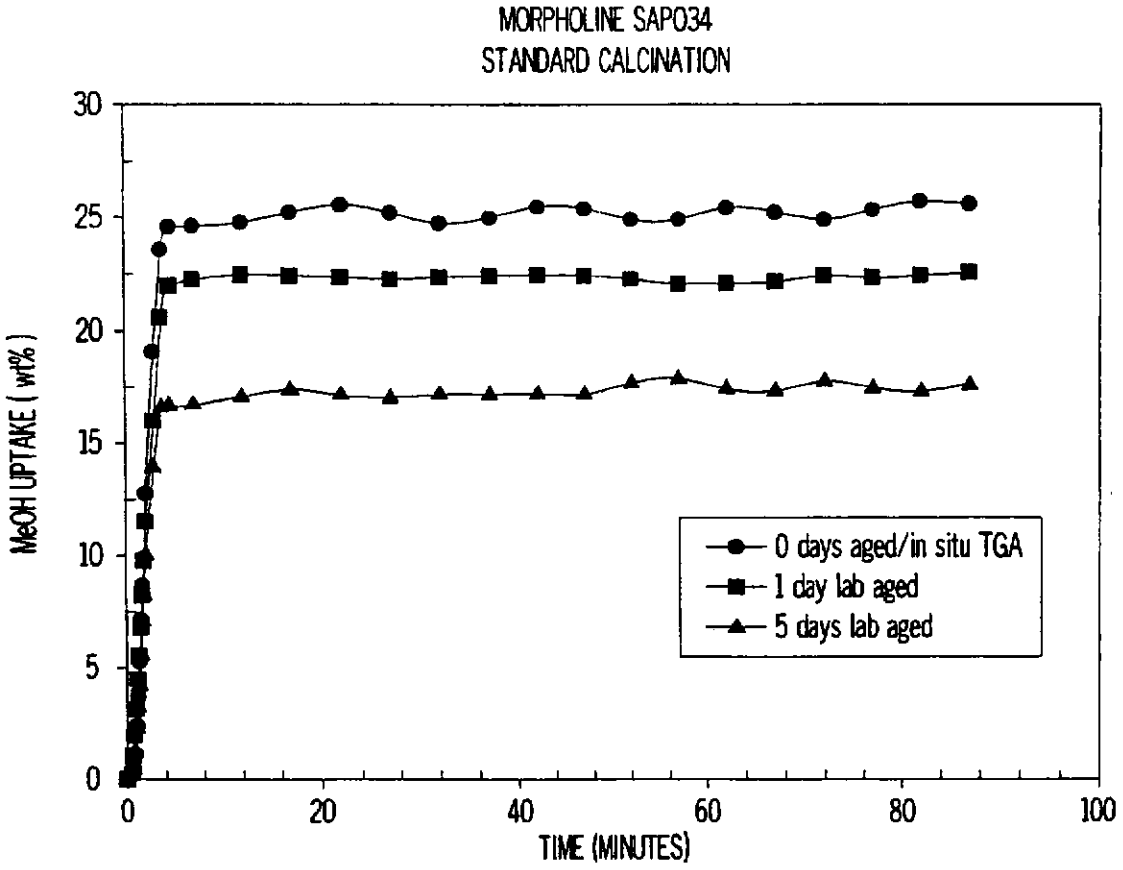

MORPHOLINE SAPO34
STANDARD CALCINATION
MeOH UPTAKE (wt%)
TIME (MINUTES)
0 days aged/in situ TGA
1 day lab aged
5 days lab aged
0
5
10
15
20
25
30
0
20
40
60
80
100

FIG. 2

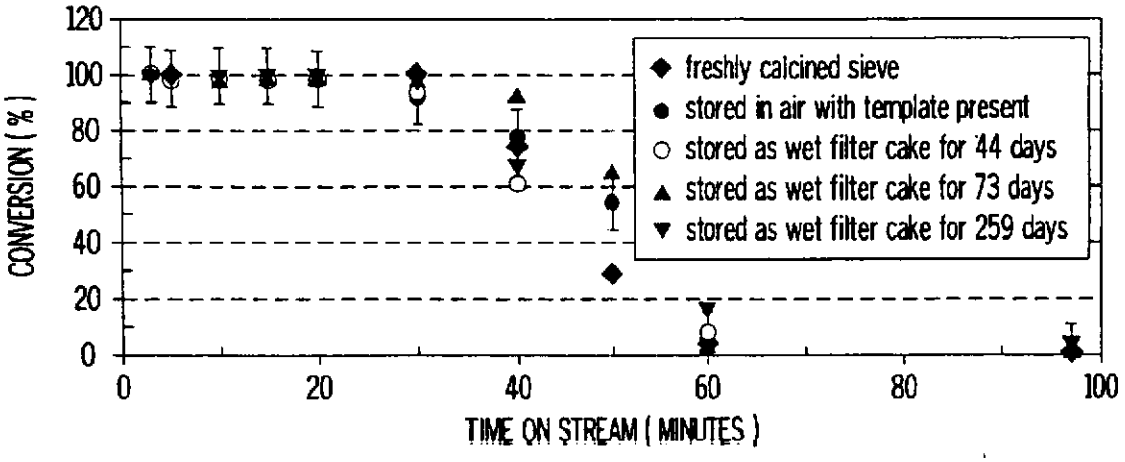

CONVERSION (%)
TIME ON STREAM (MINUTES)
freshly calcined sieve
stored in air with template present
stored as wet filter cake for 44 days
stored as wet filter cake for 73 days
stored as wet filter cake for 259 days
0
20
40
60
80
100
120
0
20
40
60
80
100

FIG. 3