

M. H. DETRICK COMPANY**SUBJECT:**

DECRETE/CALCRETE DATA

FROM

CHICAGO

DATE

JULY 17, 1963

TO: LABORATORY COMMITTEE MEMBERS**PLAINTIFF'S
EXHIBIT**

MHD- 58

Gentlemen:

Following Ed Marden's retest of Decrete 40 and Decrete 50, I made an attempt to combine that data with the earlier information prepared under date of March 12, 1963.

I offer the attached as a reasonable and conservative statement of the characteristics of the materials. It is apparent that the raw data from the laboratory is affected by so many variables that we cannot use that data without some modification.

I think the data now is consistent in that it reflects strength, density, and thermal properties in a logically related pattern.

Please look this over and comment at the time of the next Lab Meeting or earlier.

Very truly yours,

JWH/bf

J. W. Hosbein

Enc.

CC: Mr. R.W.Higgins - CHICAGO
Mr. T.S.Clousing- CHICAGO
Mr. H.B.Speelman- AURORA
Mr. E.R.Marden - AURORA
Mr. J.A.Buettgen- CHICAGO

Proposed Permanent Data

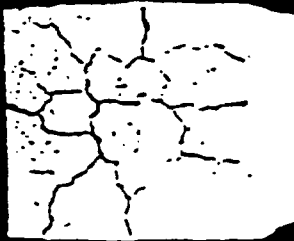
	DECRETES			CALCETES		
	30	40	50	30	40	50
USE LIMIT °F	1600	2100	2100	1800	2100	2200
FUSION TEMP °F	2200	2200	2300	2200	2250	2350
MATL RES ($\frac{2.28 \text{ mmil}}{\text{CF in Pure}}$)	29	38	48	32	44	52
COMP. STR A.C. PSI	210	820	1500	150	800	1100
" " " PSI	120	350	400	150	400	600
SHRINKAGE A.C. %	0.5	0.3	0.12	NIL	NIL	NIL
" " " %	4.0	3.0	2.5	1.6	1.0	0.5
DENSITY A.C.	33	44	55	38	55	63
DENSITY " " "	31	38	50	34	48	55
" @ 500	0.85	1.00	1.40	0.90	1.25	1.60
" " 1000	1.15	1.25	1.60	1.20	1.50	1.75
" " 1500	1.45	1.50	1.80	1.45	1.70	1.95



DECRETE
50



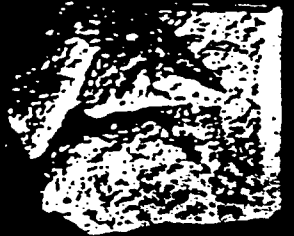
CALCRETE
50



DECRETE
40



CALCRETE
40



DECRETE
30



CALCRETE
30

10 Cycles at 1500 F