



September 11, 1974

Mr. Ray R. Krammes
Whittaker, Clark & Daniels, Inc.
1000 Coolidge Street
South Plainfield, N.J. 07080

Dear Mr. Krammes:

With reference to your letter of 8/29/74, enclosed are DTA thermograms for talc samples A, B, C and a blank run, i.e., alundum reference as sample vs. alundum reference. To keep the curves on scale and still use very high sensitivity in the 800-900°C range, we used 150 microvolts on the Y axis at the beginning and middle of the runs, then switched to 40 microvolts. The alundum vs. alundum run was done at 40 microvolts throughout.

As in the usual DTA presentation, an exotherm is seen as a peak above the baseline, and an endotherm is a negative peak. Sample A was done twice, and the peaks were duplicated very well.

With regard to the temperature range where chrysotile exhibits a peak (840-850°C), Sample A is the only one which shows a small exotherm peak at ca. 850°C. Possibly this is due to chrysotile. We cannot say, however, how much is present, if any, unless the system is calibrated with known amounts of chrysotile.

Please feel free to call if there is any question or if we can be of further assistance.

Sincerely yours,

DeBELL & RICHARDSON, INC.

Myer Ezrin, Ph.D., Manager
Analytical Services
D & R TESTING INSTITUTE



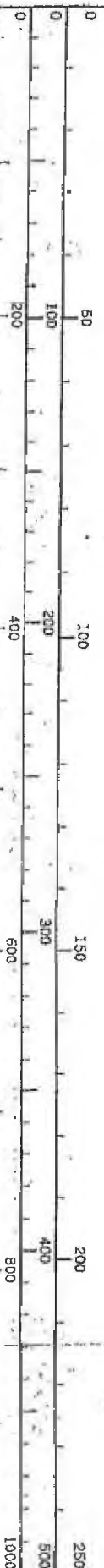
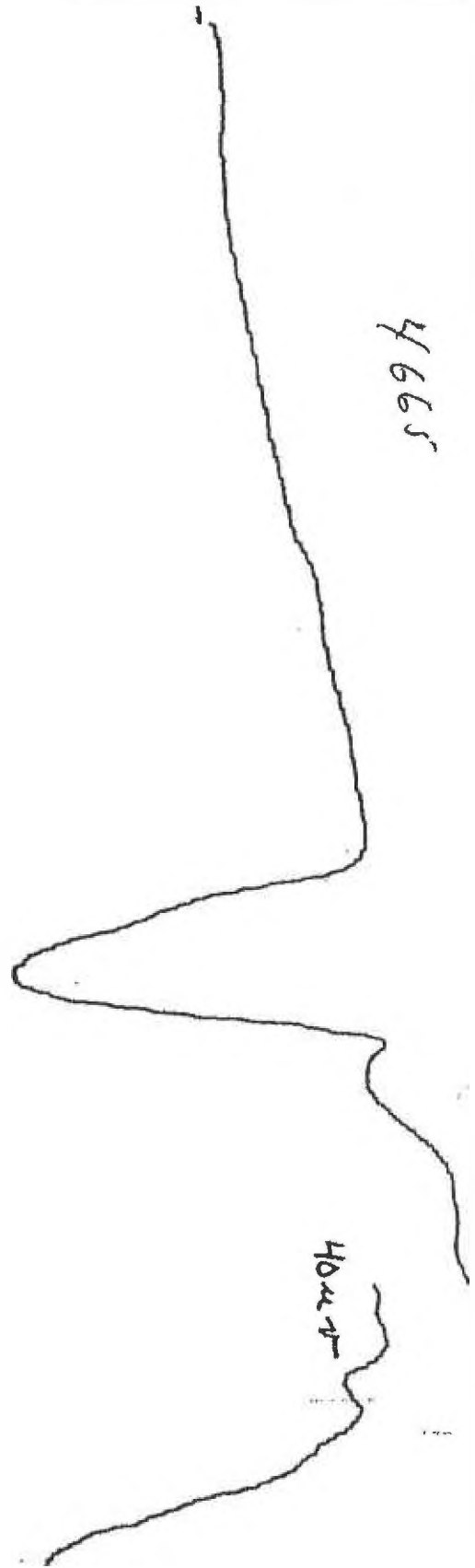
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Enclosures

SAMPLE	WGT.	REF. MATL.	WT.	ATMOSPHERE	PRESSURE
3	10.00 ms	Aluminum	10.00 ms	He	Atm
PROGRAM RATE	°C/MIN	ΔT GAIN	°C/F.S.	GAS FLOW	10.00 ms Aluminum X-Axis T.C.
24	150	1000		40 cc/min	

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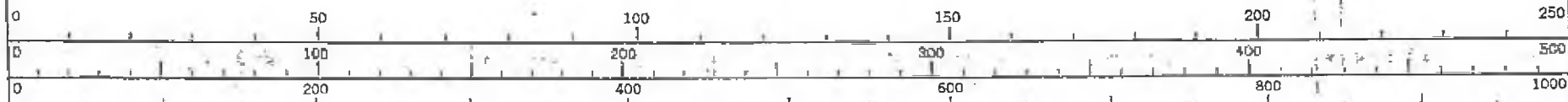


SAMPLE ALUMINUM		WEIGHT 10.0 mg		REF. MATL. ALUMINUM		WT. 10.0mg		ATMOSPHERE He		PRESSURE ATM	
PROGRAM RATE 24		°C/MIN		ΔT GAIN 40		HV 1000		G/F.S.		SAMPLE HOLDER 11BR2 N12	
								GAS FLOW 40cc/min		10.0mg ALUMINUM X-AXIS T.C.	

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Al_2O_3



SAMPLE A		WEIGHT 10.03 mg	REF. MATL. ALUNDUM 10.0mg	ATMOSPHERE He	PRESSURE ATM
PROGRAM RATE 24 °C/MIN	ΔT GAIN 150	μV 1000	°C/F.S. 1182 NIZ	GAS FLOW 40cc/min	10.0mg ALUNDUM X-AXIS T.C.

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4660

40 mV

K-C/A
°C



SAMPLE	C	WEIGHT	10.05 mg	REF. MATL.	ALUNOUM 10.0mg	WT.	10.0mg	ATMOSPHERE	He	PRESSURE	ATM
PROGRAM RATE	24 °C/MIN	Δ T GAIN	150 μV	1000 °C/F.S.	SAMPLE HOLDER	11BR2N1Z	GAS FLOW	40cc/min	SCFH	10.0mg ALUNOUM	X-AXIS T.C.


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4609

40 μV

K-C/A
°C

