

September 11, 1962

PROGRESS REPORT E339A Bond Tests, Insulating Firebrick

Corundite Super Plasto Bond

These tests were run in the same manner as the tests previously reported on in the report dated May 21, 1962.

Test # and Sample #	Total Load	Modulus	Remarks
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TROWEL JOINT, MATERIAL TAKE: DIRECTLY FROM PAII, NO THINNING

1C1	540#	172.8psi	Broke Brick
1C2	348#	111.3psi	Broke Brick
1C3	600#	192psi	Broke Both sides of brick
1C4	578#	170psi	Broke both sides of brick
1C5	480#	153.6psi	Part bond, part brick
Average	499.2#	160 psi	

MATERIAL THINNED TO BUTTER JOINT CONSISTENCY

2C1	624#	200psi	Broke brick both sides bond
2C2	564#	180.5psi	" " " " "
2C3	468#	150psi	" " " " "
2C4	564#	180.5psi	90% Brick failure 10% bond
2C5	528#	170psi	Broke brick
Average	549.6#	176.2psi	

MATERIAL THINNED TO DIPPER CLAY CONSISTENCY, DRY BRICK DIPPED BOTH SIDES

3Ca1	684#	219psi	Broke Brick
3Ca2	624#	200psi	1/2 bond, 1/2 brick
3Ca3	660#	211.2psi	Broke Brick
3Ca4	564#	180.5psi	2/3 brick, 1/3 bond
3Ca5	624#	200psi	broke brick
Average	631.2#	202.1psi	

MATERIAL THINNED TO DIPPER CLAY CONSISTENCY, WET BRICK DIPPED BOTH SIDES
(See report of 5/21/62 for full details on this test)

3Cb1	96#	39.7psi	broke bond
3Cb2	96#	30.8psi	" "
3Cb3	72#	23psi	" "
3Cb4	72#	23psi	" "
3Cb5	72#	23psi	" "
Average	81.6#	26psi	

M.H. Detrick Co.
R&D LABORATORY

R. B. Abell

