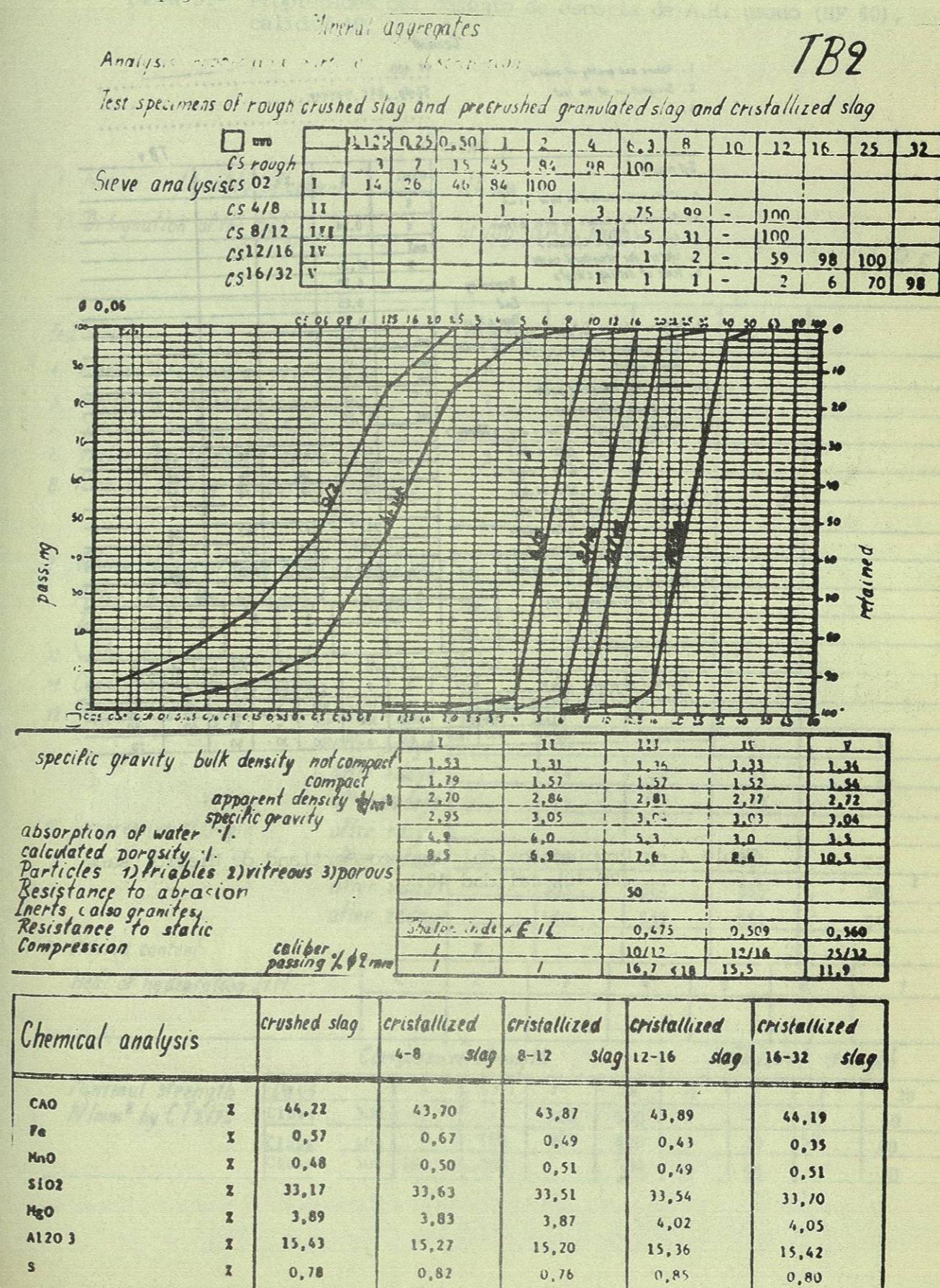


Tabla 1.- Características de la escoria comparada con varios agregados naturales.

	1	2	3	4	5	6	7	8	9	10	11	TB 1	
												loss %	%
Origin													
exploited in the gallery	12/16	1,4	0,8	22,6	8/16	R _d : 37% <40	P _r : 18%	8/16		0,324			
open air exploited	12/16	7,3	3,5	62,0	8/16	R _d : 40% >40	P _r : 19%	8/16		0,452			
Moselle	12/16	1,3	0,4	17,9	8/16	R _d : 53% >40	P _r : 15%	8/16		0,432			
Conglomerate	Folschette	12/16	1,0	0,3	13,4	8/16	R _d : 51% >40	P _r : 15,52	8/16		0,448		
Rhin		12/16	0,1	<0,1	6,2	8/16	R _d : 58,5% >40	P _r : 9%	8/16		0,470		
Each		12/16	0,05	0,0	0,6	8/16	R _d : 44% >40	P _r : 17%	8/16		0,456		

Tabla 2.- Características mecánicas, físicas y químicas de la escoria triturada y granulada

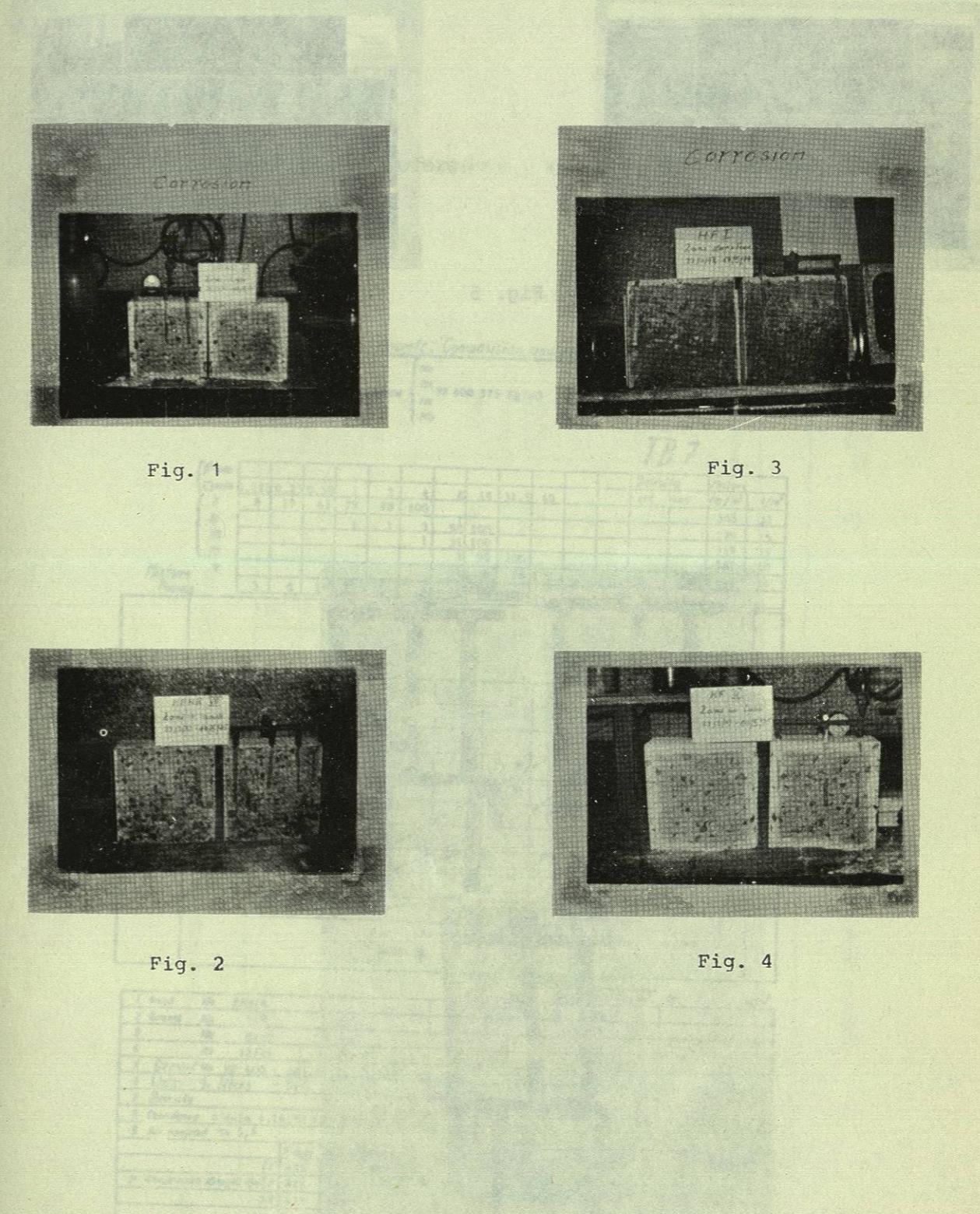
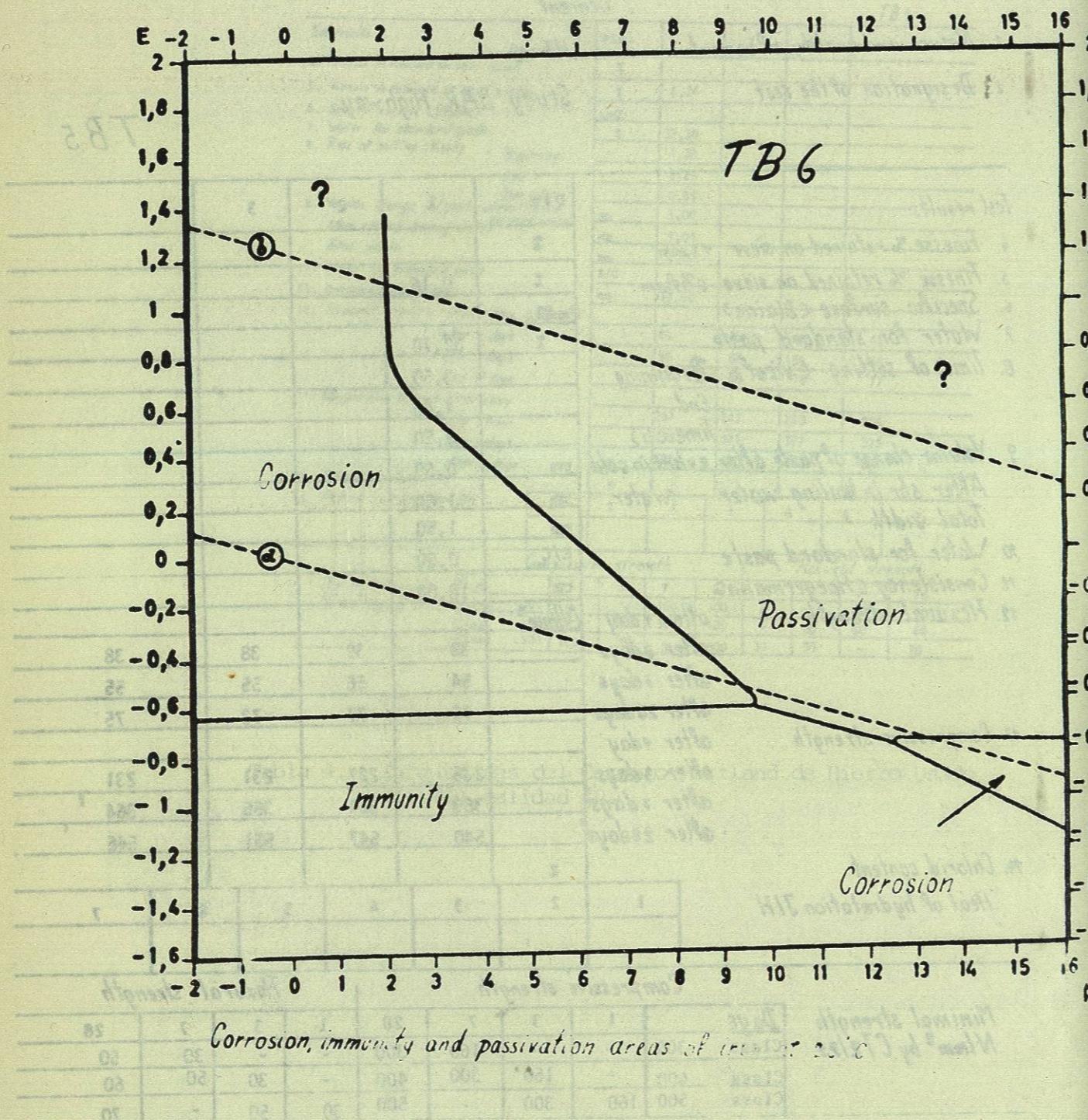


Cement		PF 400						
1. Nature and quality of cement		Study, BAS Mystery.						
2. Designation of the test								
3.								
Test results		Dm.	1	2	3			TB+
4. Fineness % retained on sieve 88 mm		%						
5. Fineness % retained on sieve 0.09 mm		%	0,24					
6. Specific surface (Blaine)		cm ²						
7. Water for standard paste		%	32,30					
8. Time of setting cViscos		Beginning						
		End						
9. Volume change of paste after 24 hrs in cold water		Time (h)						
After 24 hrs boiling water		mm	0,55					
Total width		mm	1,00					
10. Water for standard paste		mm	1,00					
11. Consistency (Mengermanns)		mm	2,00					
12. Flexural strength after 1 day (N/mm ²)		E/C	0,50					
after 3 days		cm	17,50					
after 7 days				44	45	46	45	
after 28 days				59	54	56	56	
13. Compressive strength after 1 day				78	80	74	77	
after 3 days					257	247	263	256
after 7 days					378	371	377	375
after 28 days					598	593	602	598
14. Chlorid content		%						
15. Heat of hydration J/kg		1	2	3	4	5	6	7
Compressive strength								
Minimal strength N/mm ² by CT 2175		Days	1	3	7	28	1	3
		Class	300	-	-	160	300	-
		Class	400	-	160	300	400	-
		Class	500	160	300	-	500	30
							50	-
								70
Flexural strength								

Tabla 4.- Propiedades del Cemento Portland de Hierro Usado (PF 40) calidad 40.

Tabla 5.- Propiedades del cemento de escoria de A.H. usado (HF 40), calidad 40.

(OP-TH) sobre A.A. de silicato de aluminio - c. 1970
Tabla 6.- Diagrama - Pourbaix



Figs. 1, 2, 3 y 4.- Carbonatación del Concreto y la Corrosión de las Varillas.