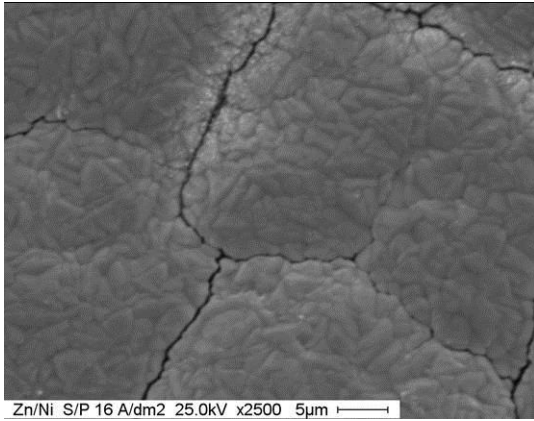


**Figuras y tablas correspondientes a la Patente de
Invención AR087066B1 sobre método de
electrodeposición de una aleación de Zn-Ni con
partículas cerámicas de carburo de silicio o alúmina,
aplicado en la generación de un recubrimiento.**

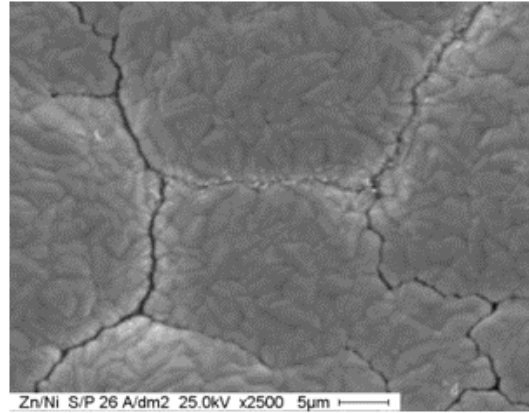
Solicitada por: Instituto Nacional de Tecnología Industrial.

Inventora: Zulema Ángela Mahmud.

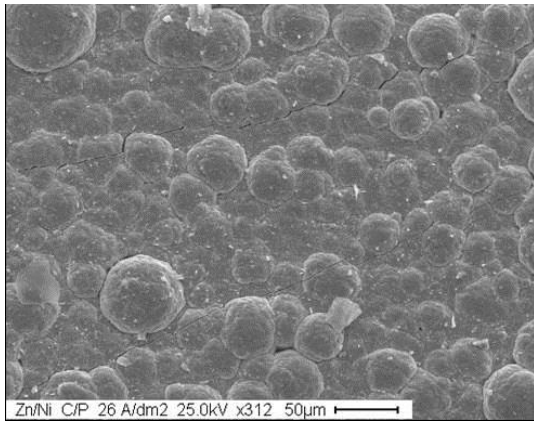
2022



(a) $j = 16 \text{ A dm}^{-2}$; $C_{\text{CSi}} = 0$



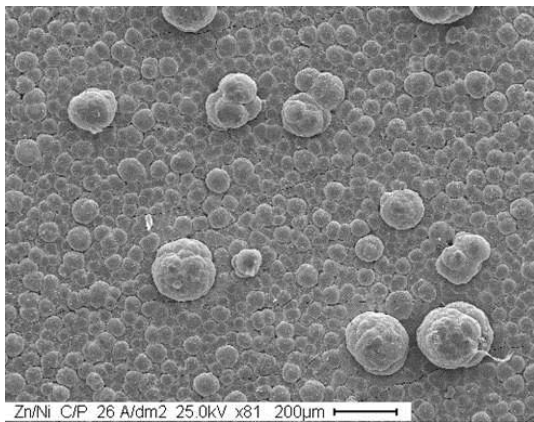
(b) $j = 26 \text{ A dm}^{-2}$; $C_{\text{CSi}} = 0$



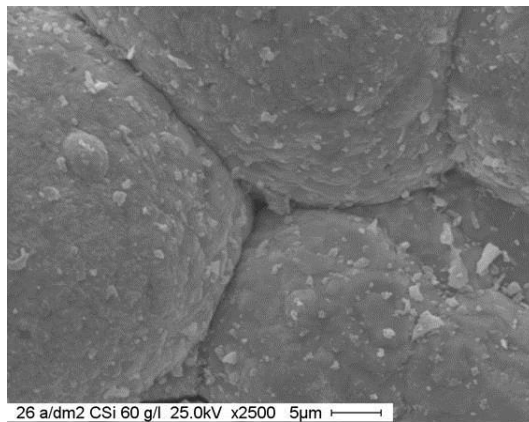
(c) $j = 26 \text{ A dm}^{-2}$; $C_{\text{CSi}} = 20 \text{ g L}^{-1}$



(d) $j = 26 \text{ A dm}^{-2}$; $C_{\text{CSi}} = 20 \text{ g L}^{-1}$



(e) $j = 26 \text{ A dm}^{-2}$; $C_{\text{CSi}} = 60 \text{ g L}^{-1}$



(f) $j = 16 \text{ A dm}^{-2}$; $C_{\text{CSi}} = 60 \text{ g L}^{-1}$

FIG. 1a

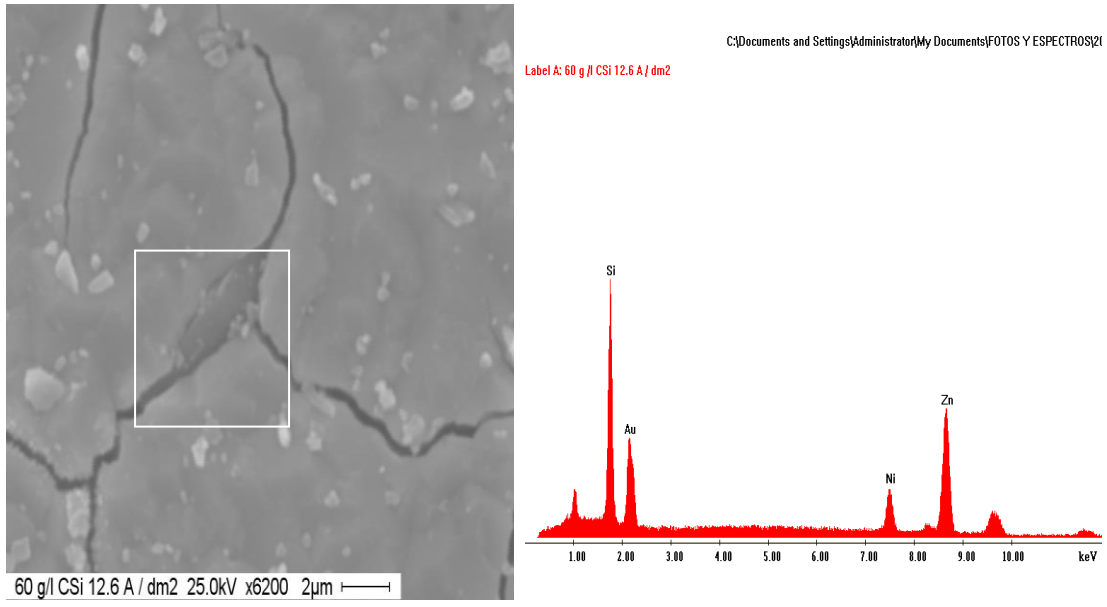


FIG. 1b

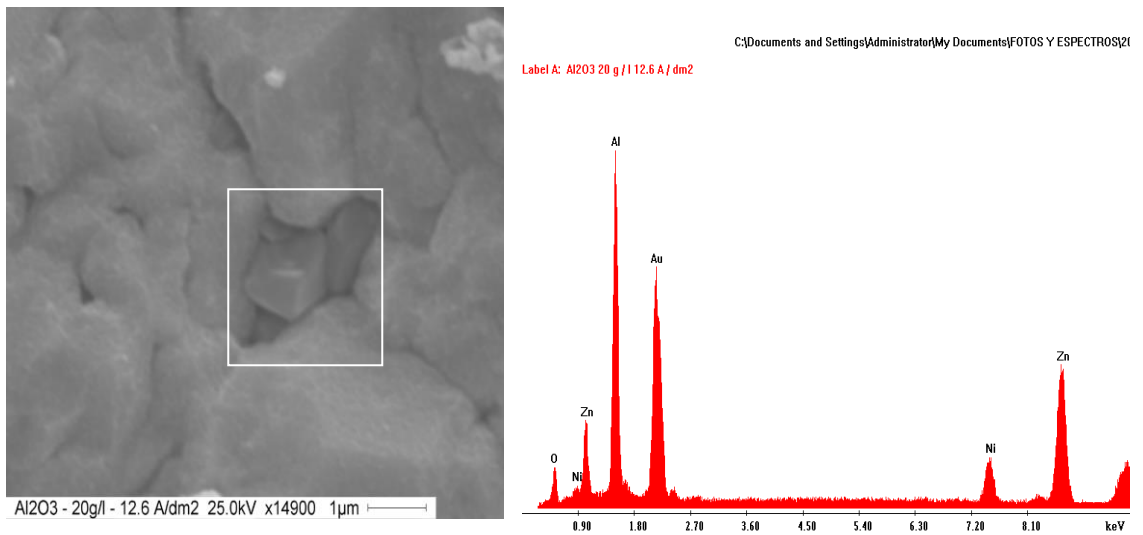


FIG. 1c

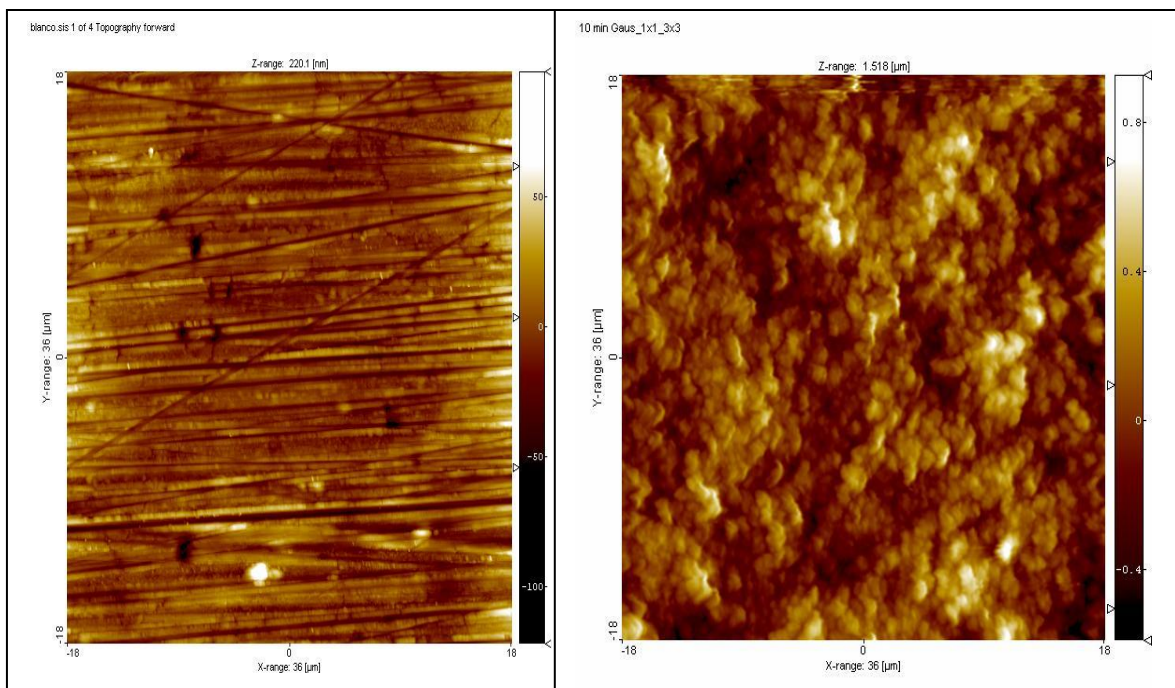


FIG. 2

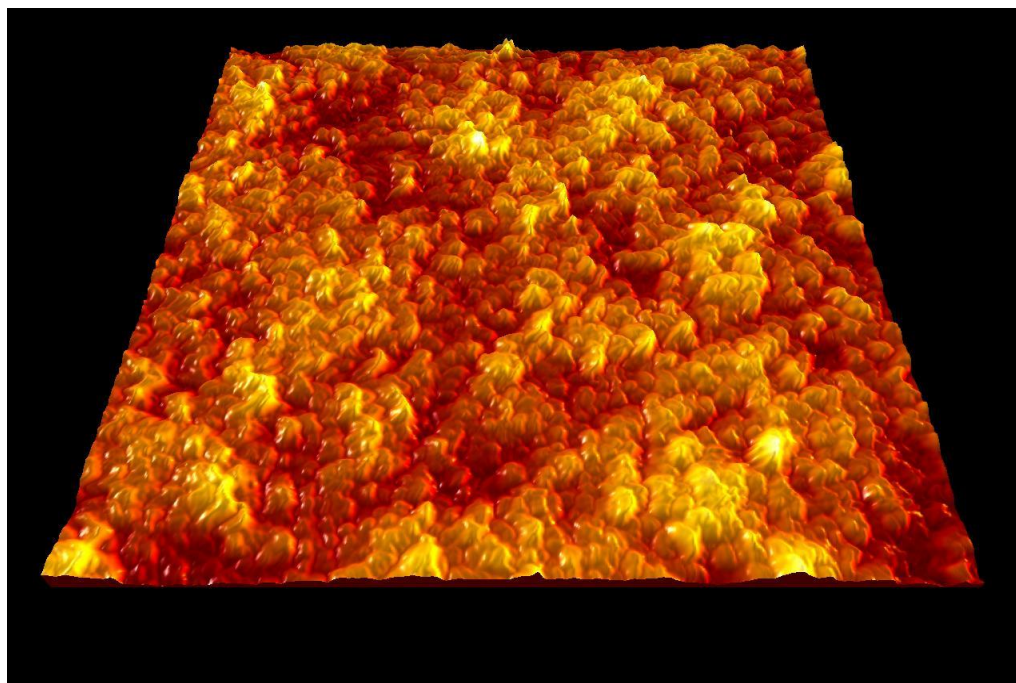


FIG. 3



FIG. 4

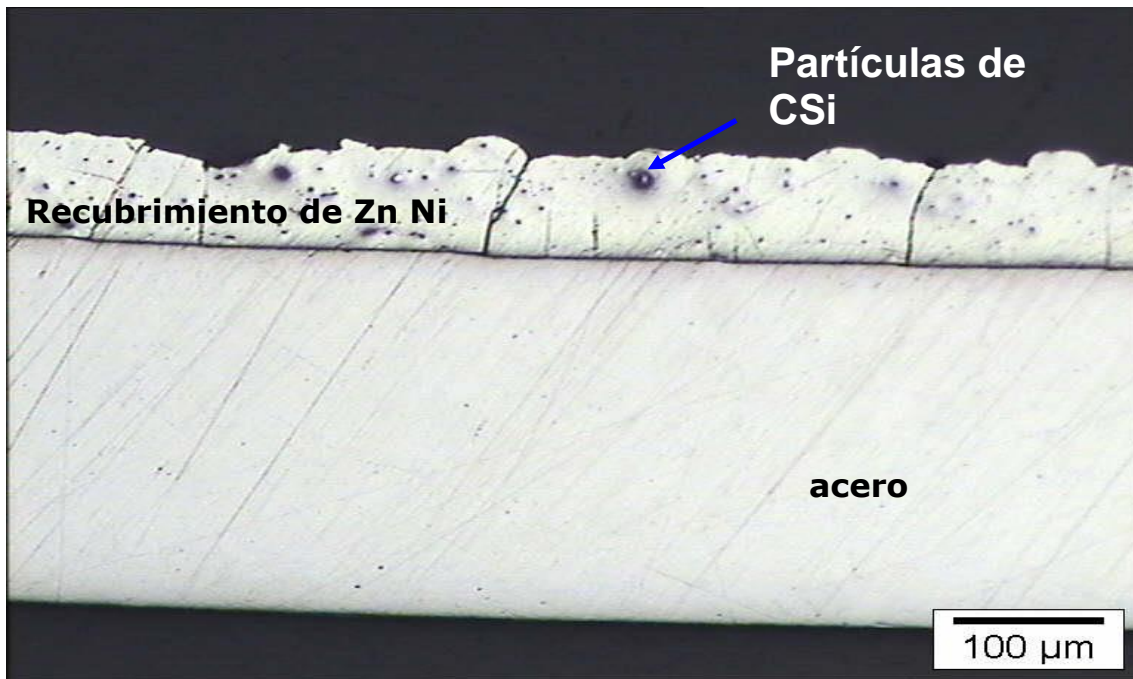


FIG. 5

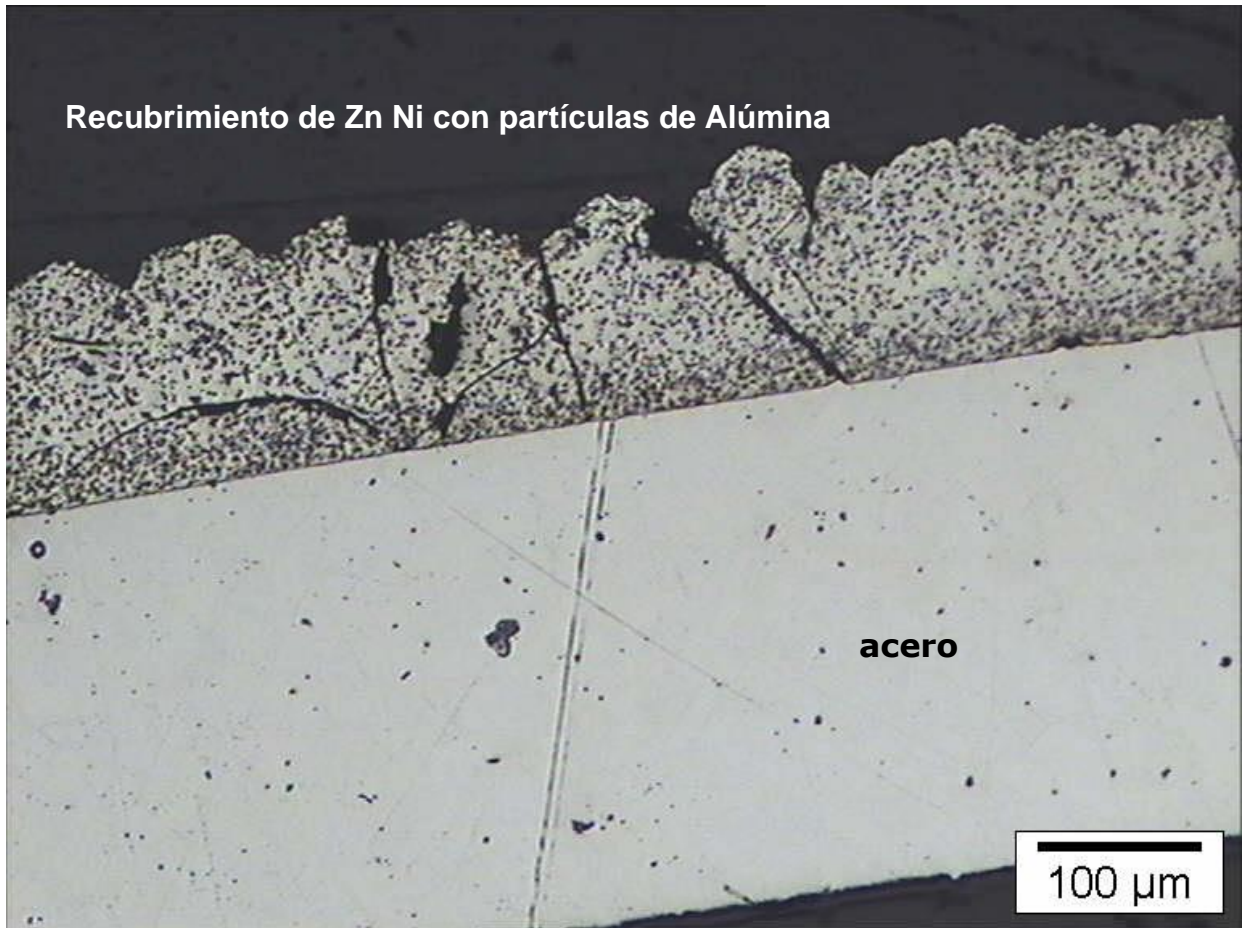


FIG. 6

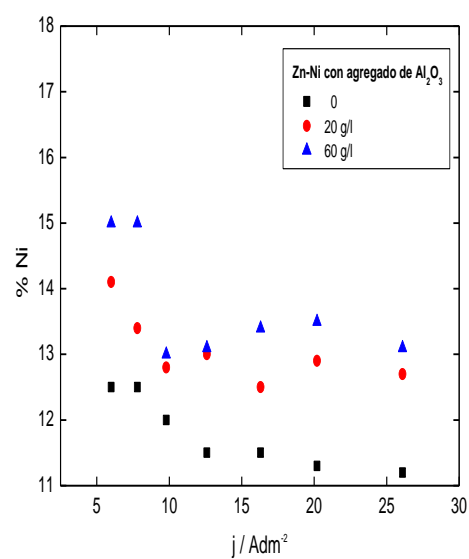
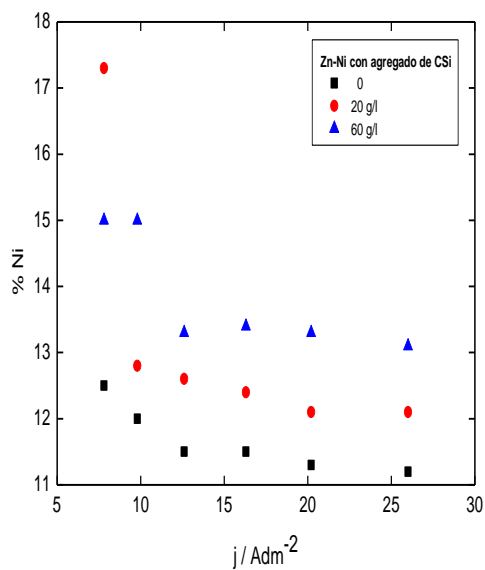


FIG. 7

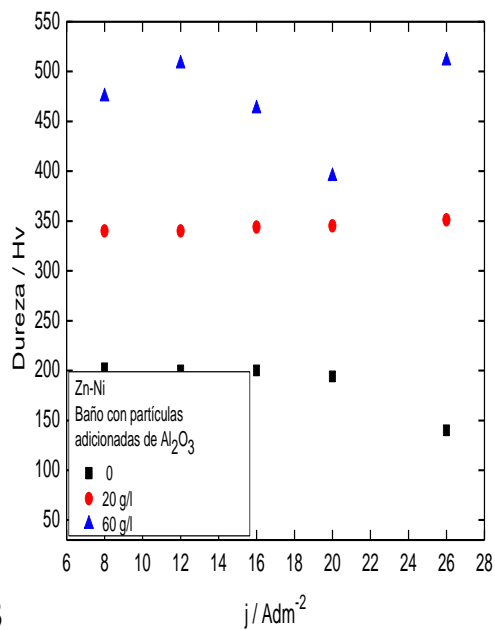
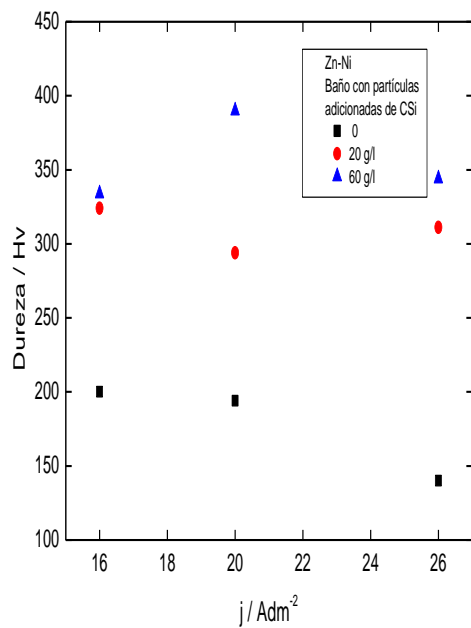


FIG. 8

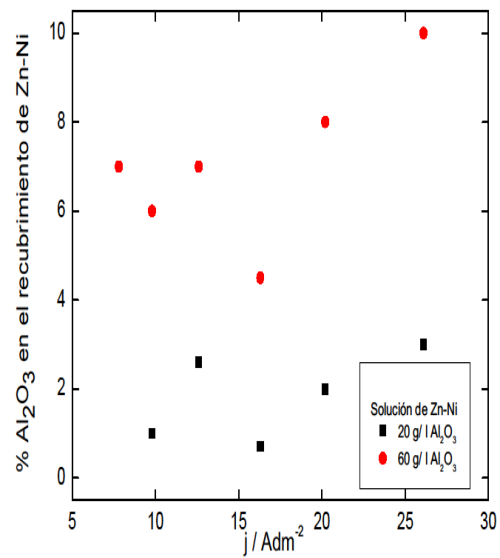
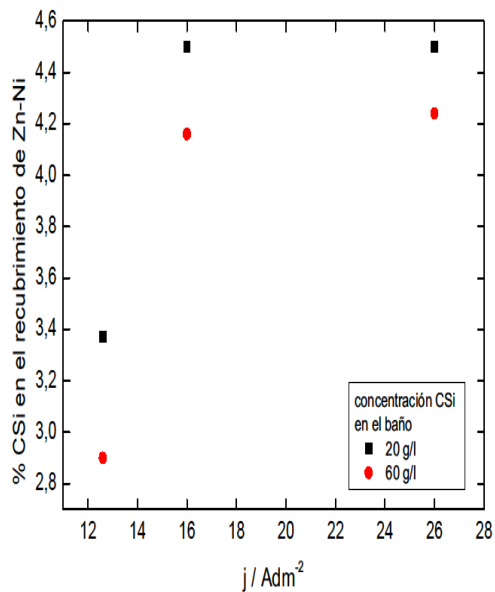


FIG. 9

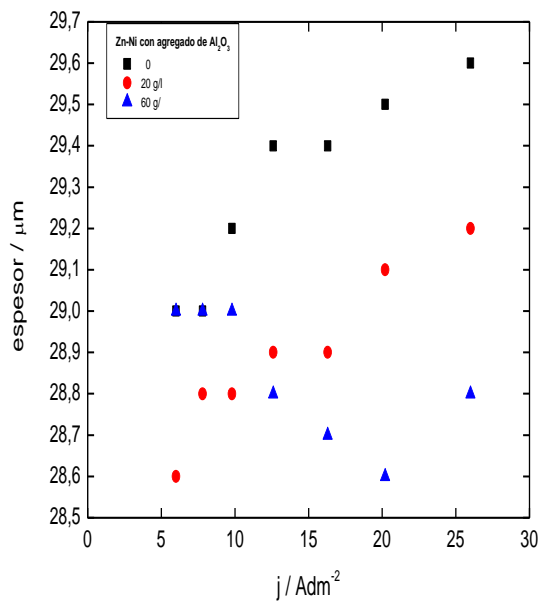
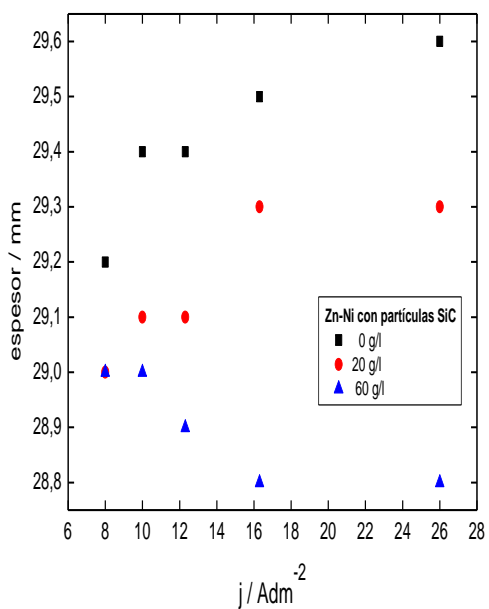


FIG. 10

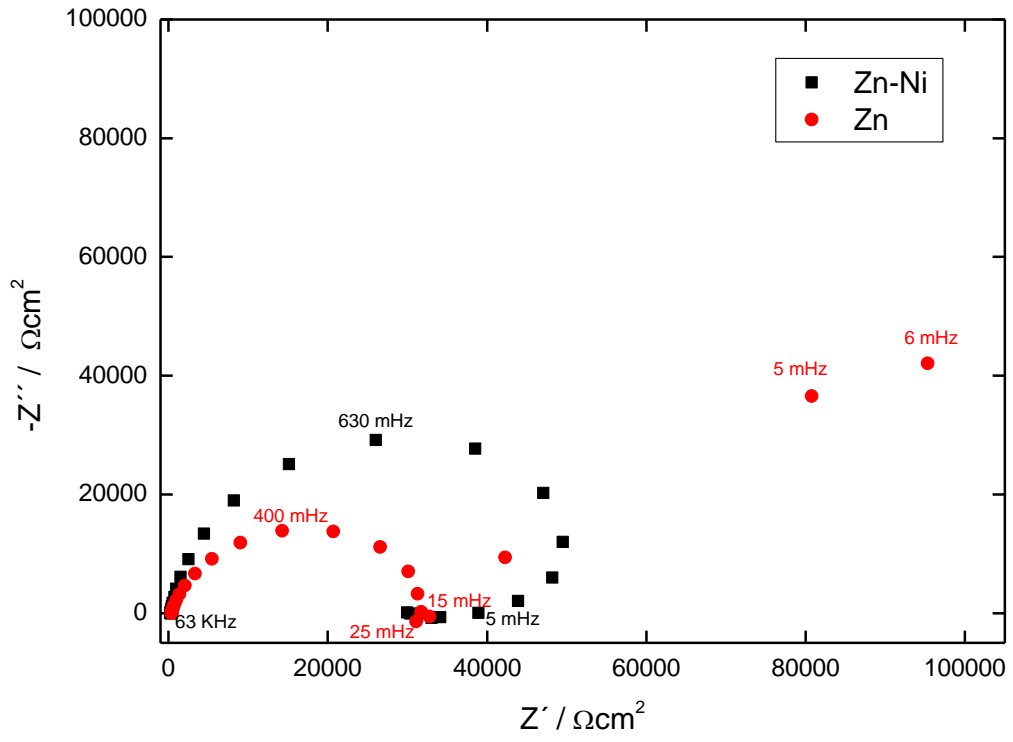
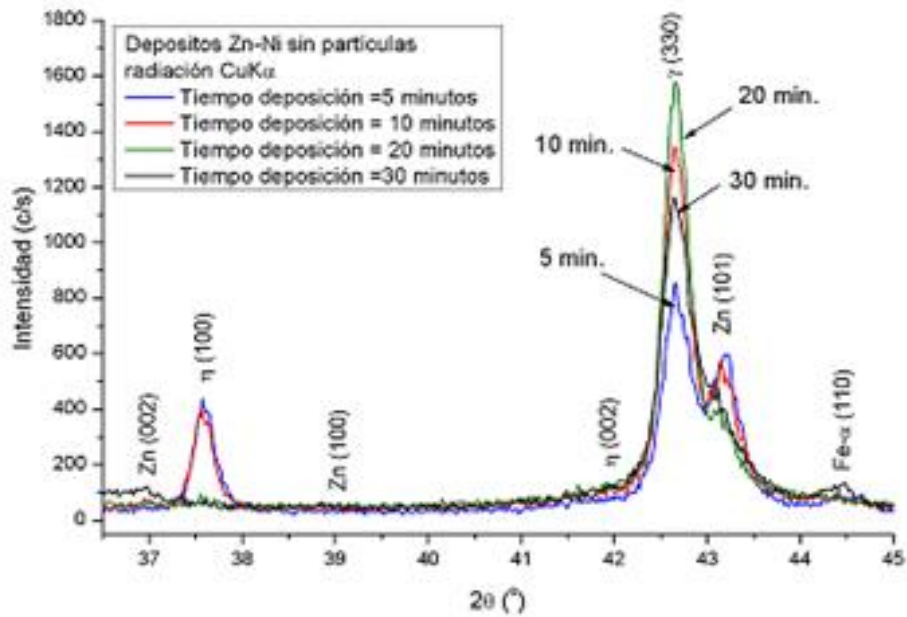


FIG. 11

ZnNi sin partículas



ZnNi con partículas de CSi

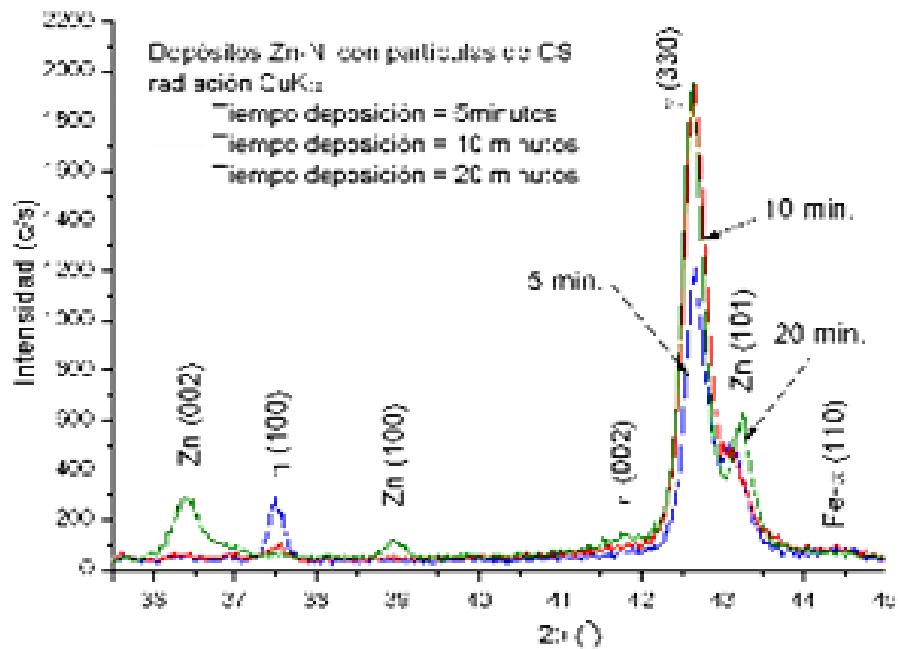
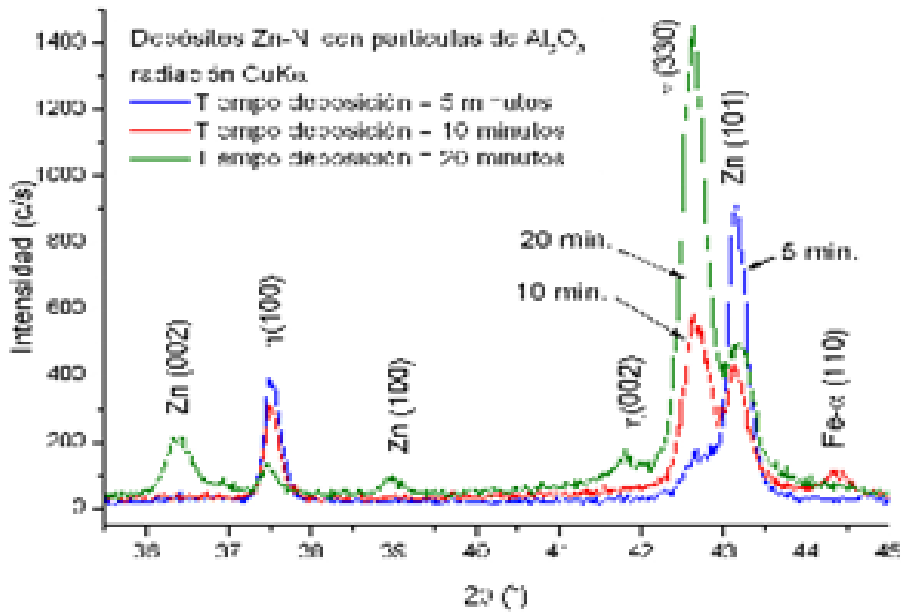


Fig.12 a y b

ZnNi con partículas de Al₂O₃



ZnNi con partículas de Al₂O₃

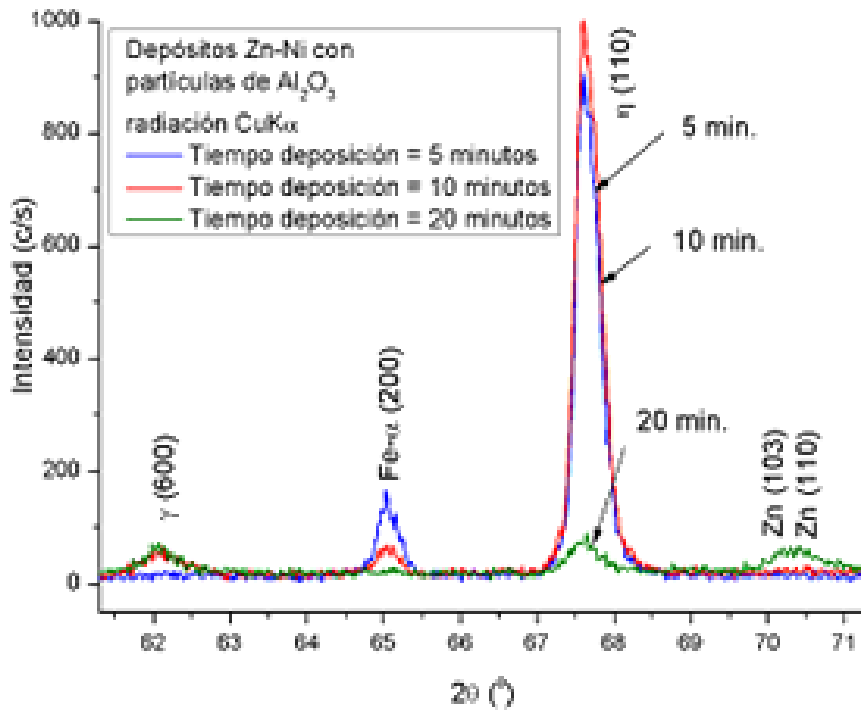


Fig. 12 c y d

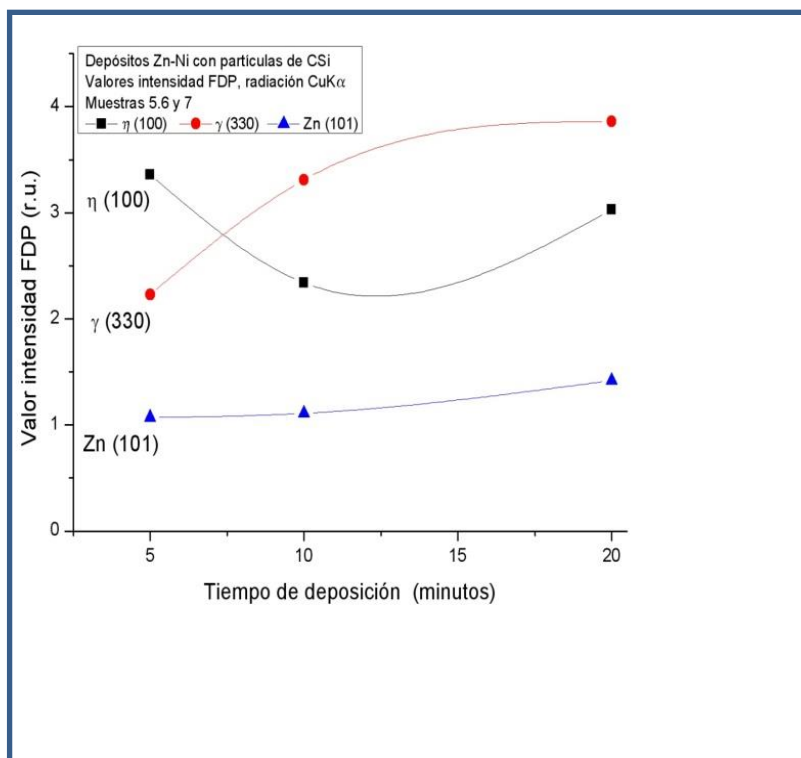


Fig. 13

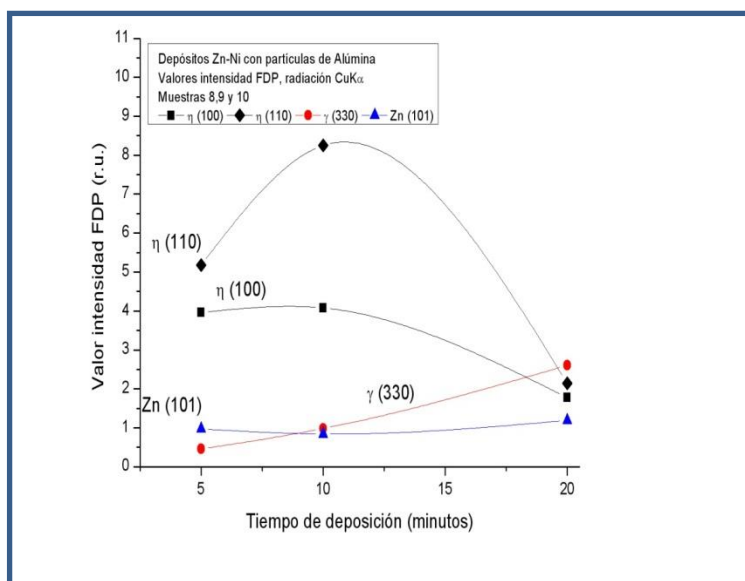


Fig. 14

Material	Espesores promedio en micrometros	Características	Probeta N°	Horas hasta la corrosión blanca
Zn-Ni	10	Recubrimiento con aditivo sacarina 3×10^{-5} M	1	455
	11		1'	406
	11.6		2	406
	11.4		2'	455
	9.7	Recubrimiento sin aditivo	3	336
	9.8		3'	264
	8.96		4	264
	8.63		4'	264
Zn	3.9(5')-4 (5)	Recubrimiento sin aditivo	5'	168
	2.8		6	264
	2.6		6'	264
Zn	10,3	Cromatizado	7	455
	10,5		7'	480
	10,2		8	No presentó

Tabla 1

E μm	RTC Ω	RTC Ω	RTC Ω	J_0 μAcm^{-2}	J_0 μAcm^{-2}	J_0 μAcm^{-2}
	S / p	CSi	Al_2O_3	s/p	CSi	Al_2O_3
5	4000	10000	7000	1,2	20	18
10	2000	13000	20000	1,9	1,5	1,0
20	5200	6300	7500	4,0	4,0	1,0

Tabla 2