

-

# TEM

\*

( // // // )

R  
773K  
R TEM R  
R R

50.23%atNi

TEM - R :

[ ]

(A → M)

R

(R → M) R (A → R)

[ - ]

[ - ]

R

R

(50:50)

[ ]

(A → R → M)

[ ]

[ ]

(R-Phase) R

[ ]

					R	[ ]
	ks	ks / ks	K		-	
				[ - ]		
			K	( )		-:
	TiNi				Al	Fe
					-	-
	[ ]					
	"		[ ]			
					-	-
	R					
					[ ]	
						R
	(XRD) X					
(TEM)					[ ]	
					R	
					R	
		XRD		← (IC) Incommensurate	← B2	
	0.3μ		B19'		← (R) Commensurate	
		0.05μ			[ ]	
XRD					Incommensurate	
					[ ]	
				[ ]	R	
					-	R
$\lambda_{Cu} = 1.54050$		Philips	XRD			
HNO <sub>3</sub> :14%-				Special Material		50.23at-%Ni
		HF:4%-H <sub>2</sub> O:82%				
Olympus PME3						6.35 <sup>mm</sup>

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CH<sub>3</sub>COOH: 93% -

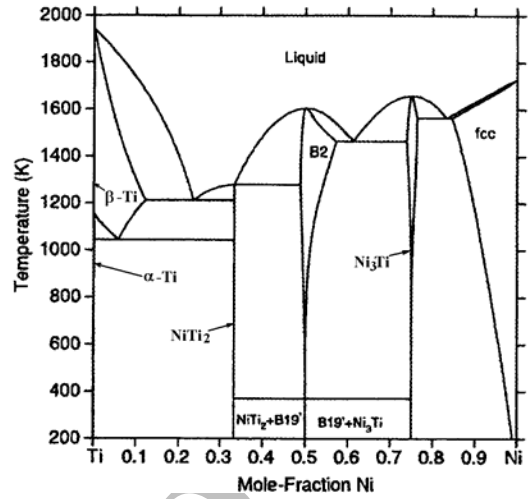
A8

HClO<sub>4</sub>: 7%

Philips (STEM)

200kV

CM200



( )

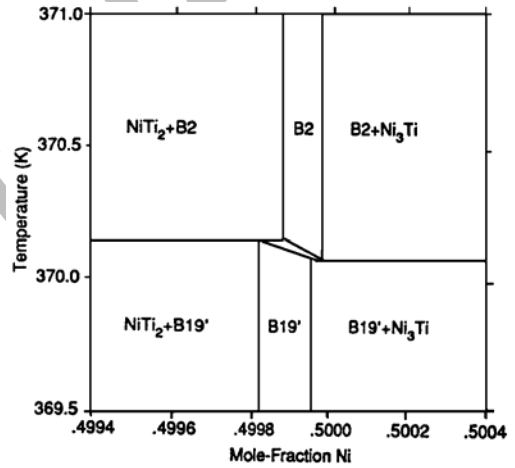
( )

(A<sub>f</sub> = 65°C)

B2

( )

B19'



( )

Ti-Ni

( )

B19' B2

.0.4994 ≤ X<sub>Ni</sub> ≤ 0.5004 ( ) 0 ≤ X<sub>Ni</sub> ≤ 1

773K

( )

500μ - 300

EDM

100μ - 80

( )

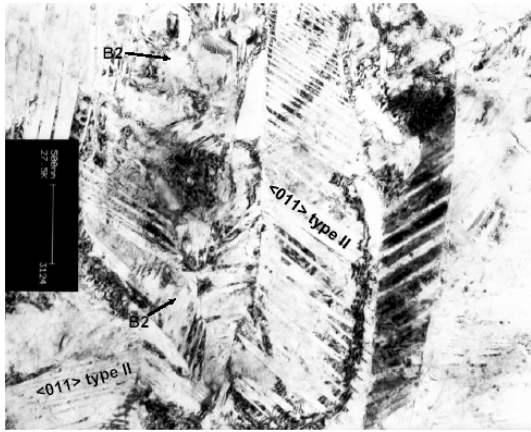
X

B2

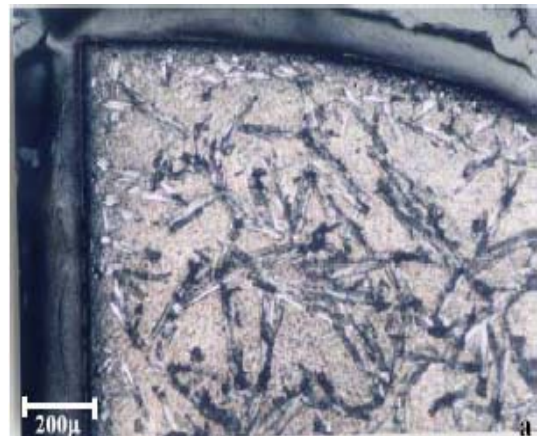
3<sup>mm</sup>

R

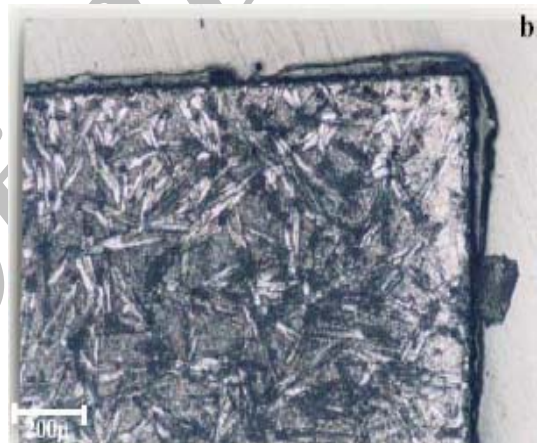
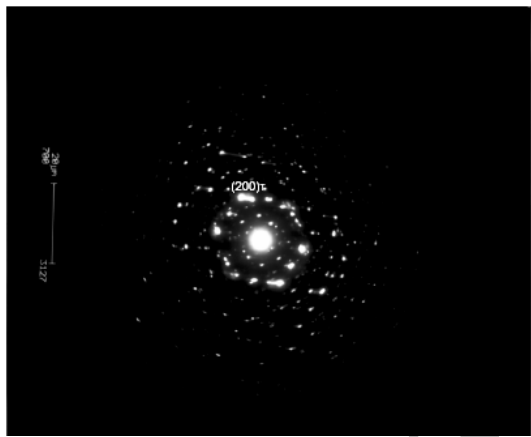
Tenupol-5



TEM :  
K  
II  
B2



( )



( )

( ) ( ) : (×65)

773K

( )  
X

R

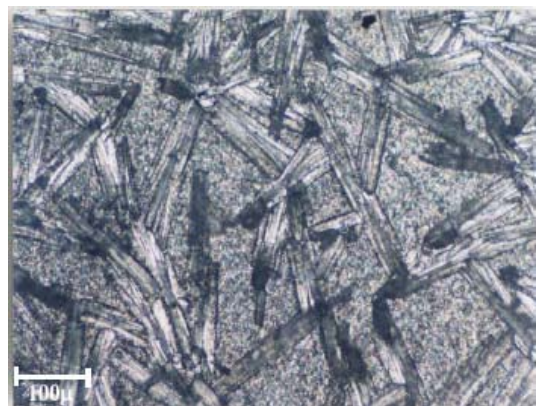
( )

R

)

R

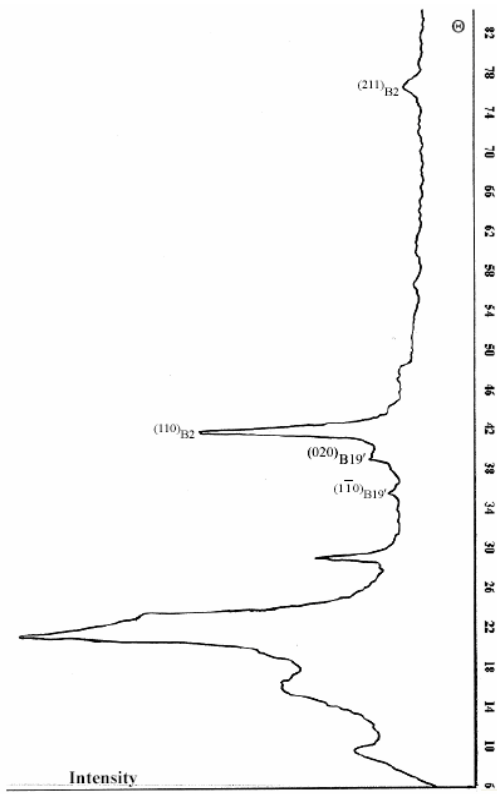
(300K



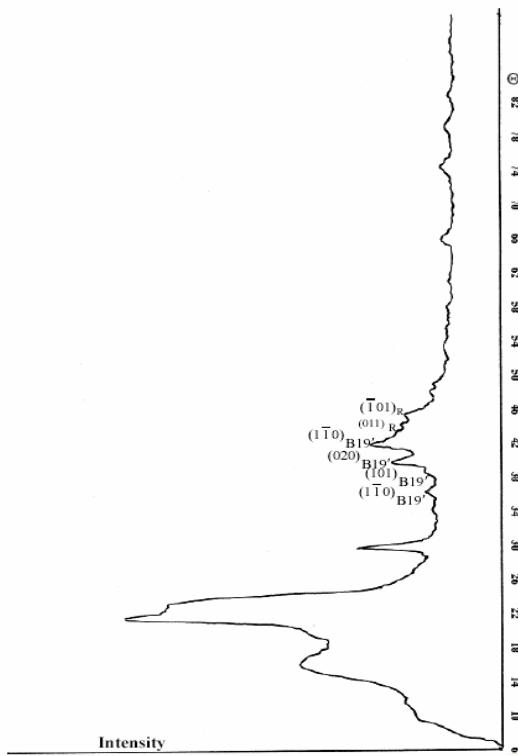
R

R

(×130)



K X :



K X :

of SID

R

B19'

( )

R

773K

R ( ) X

R

B19'

( )

( )

( )

R B19'

( )

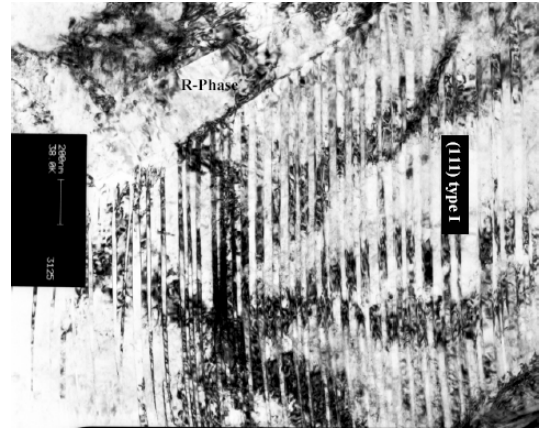
R



TEM :

II

K

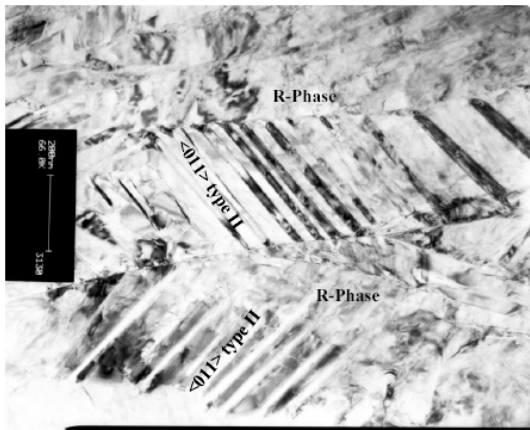


TEM :

R

I

K

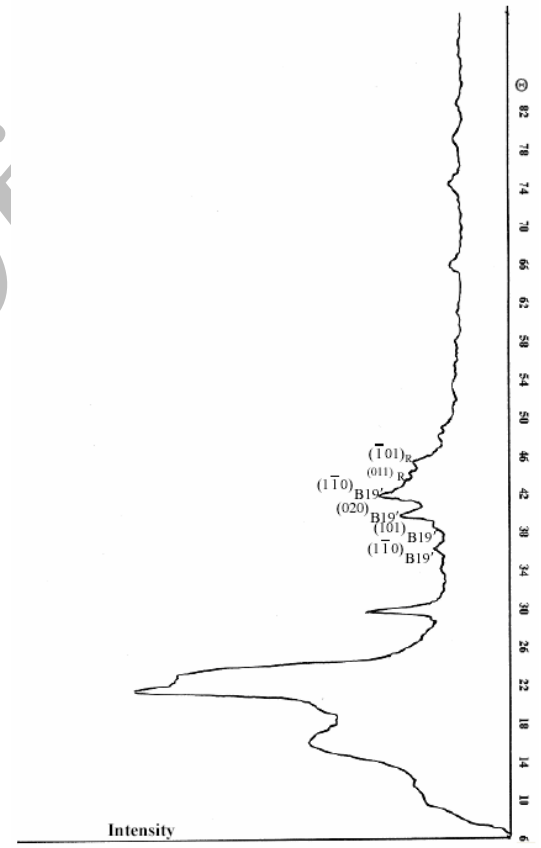
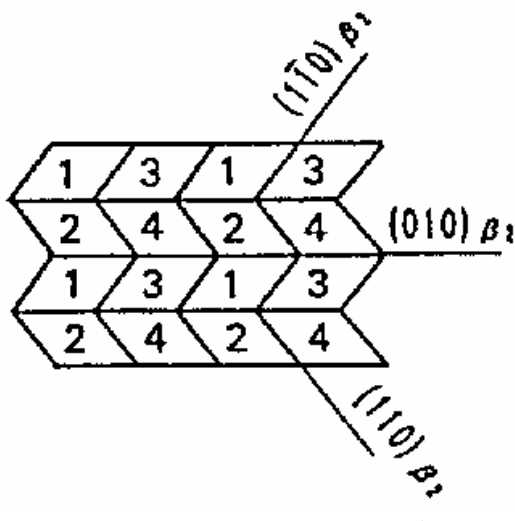


TEM :

II

K

R



X

K

R

( )

B19'

R

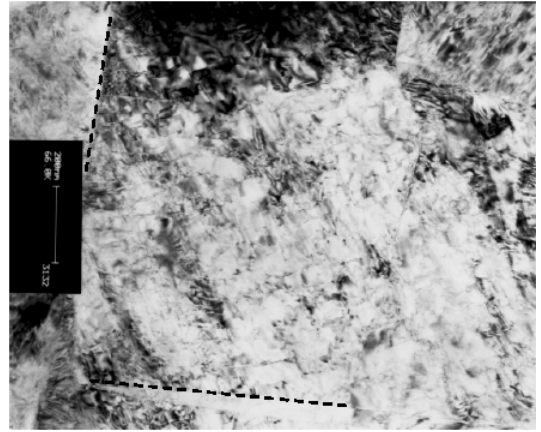
)

"

(

[ ]

R



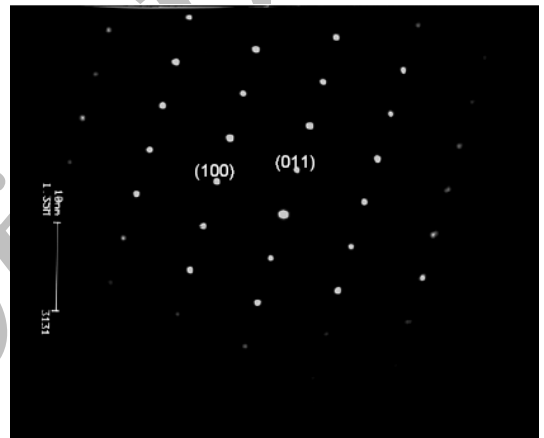
R

( )

R

50.23at-%Ni

R



( )

K

( )

TEM

( )

(300K )

R

R

( - )

R

A → M

A → R

( - )

R

"

R

R

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- 1- Biocompatibility
- 2 - Biofunctionability
- 3 - Polymorphic
- 4 - Isotrope
- 5 - Domain
- 6 - Self-Accommodation

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