

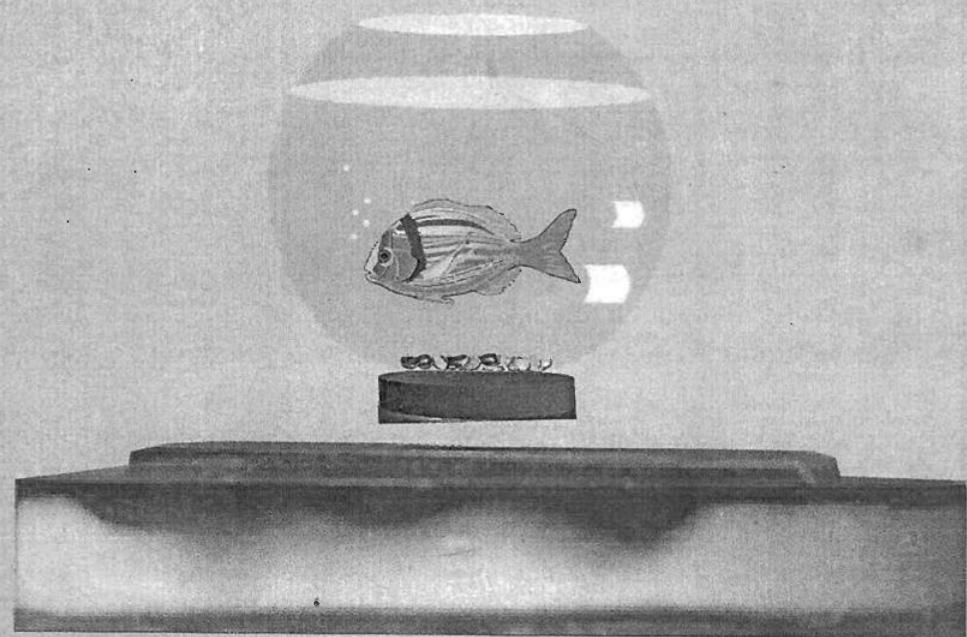


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M-O-025

Local ordering study of nanostructured FeMnAl alloys

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The structural and magnetic properties of mechanically alloyed $Fe_{55}Mn_{10}Al_{35}$ alloys were studied as a function of milling time. The local structural change of FeMnAl has been investigated by means of X-ray diffraction (XRD), extended x-ray absorption fine structure (EXAFS) and Mössbauer spectrometry. The magnetic properties were measured using vibrating sample magnetometer (VSM) at room temperature. With increase of milling time, the XRD patterns were broadened and the intensity was reduced. The XRD pattern from 24 hours alloyed FeMnAl powders exhibited bcc structural phase. The local structure and atomic ordering were examined by EXAFS experiment. The EXAFS spectra were obtained Fe K-edge. The radial atomic density in a real space can be shown in the Fourier transformed spectrum [1]. Fourier transform of EXAFS spectra for FeMnAl alloys exhibits the local ordering of Fe central atom which was change with increase of milling time. The first shell of Fourier transformed spectra was shifted to short atomic range corresponding to the formation of alloy. The Mössbauer spectrum showed typical sextets in the 1 hour milled sample corresponding to alpha-Fe spectrum. Increasing the milling time, the sextets became broader due to appearance of disordered Fe atoms in both solid solutions. The hyperfine field distributions were decreased as increasing milling time, which is similar trend with magnetization distribution.

[1] Yong-Goo Yoo, Bingzhi Jiang, J.M. Greneche, Dong-Seok Yang and Seong-Cho Yu *J. Magn. & Mag. Mat.*, 304, e715 (2006)

M-P-059

Structural and magnetic properties of NiAlC nano-powders

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We have studied the structure and magnetic properties of NiAlC nano powders made by mechanical alloying. The mechanical alloying was performed from 1 hour to 12 hours using Ni, Al, C element powders. Carbon added magnetic alloys have been extensively studied due to their nanocomposite structure originating from a complicated phase change due to carbon concentration [1]. The structural evolution during mechanical alloying was examined by extended X-ray absorption fine structure (EXAFS) and X-ray diffraction (XRD) analysis. The magnetic properties also have been measured by vibrating sample magnetometer (VSM). The XRD analysis confirmed the beginning of the alloy formation at 4 hours milling time and the completion of alloy formation after 12 hours milling time. From the XRD result, the estimated particle size was around 5 nm for 12 hours milled sample. The local structural change was analyzed by EXAFS measurement. The increase of milling time generates the absence of the long range ordering in NiAlC nano powders. The nearest neighbors of Ni atom were changed from Ni to Al or C with increasing milling time. This indicates that the NiAlC alloy was formed after 12 hrs milling time. The structural change leads to the variation of magnetization. The increase in milling time produces the decrease of magnetization.

- [1] Yong-Goo Yoo, Dong-Seok Yang, Bingzhi Jiang, Seong-Cho Yu, and J.M. Greneche *J. Kor. Phys. Soc.*, 48(6), 1463 (2006)

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BHATTI K. P.	M-P-056	CELIK S.	S-P-045 S-P-082 S-P-088	DEAC I. DEAC I.G. DEDE M.	M-P-029 M-O-023 M-O-023
BIANCOUNI A.	S-O-002				
BILGILI O.	S-P-096				
BIRLIK I.	S-P-028				
BIRLIKSEVEN C.	S-P-010	CETINKARA H.A.	S-P-053		
BIŠKUP N.	M-P-041	CHAN C. L.	M-P-014	DE KEYSER K.	S-I-040
BOGER A.	S-I-049	CHAND M.	S-P-066	DE LUCA R.	S-O-022
BOGUSH V.	M-I-002	CHATTERJEE A.	M-I-004	DEMIREL E.	M-O-023
BOHNENSTIEHL S.	S-I-044		M-O-027		M-P-027
BOLAT S.	S-P-076				
BONDINO F.	M-P-024	CHAUDHARY S.	M-O-028 M-P-056	DEPPE F. DESOKY AND S.	S-I-048 S-P-094
BORGES R.P.	M-O-006 M-O-023	CHAUDHURI B. K. CHAUHAN C. C. CHEGGOUR N.	M-P-014 M-O-034 S-I-009	DEUTSCHER G.	M-P-008 S-P-013
BOSE E.	M-P-014	CHEIKHROUHOU A.	M-O-010	DEWHURST C.D.	S-I-012
BOSE S.	S-P-081		M-P-022	DHAWAN M.	M-P-044
BOUGHERIRA Y.	S-O-030		M-P-023	DIEZ J.C.	S-P-040
BOURÉE F.	M-P-025				
BOUSLYKHANE K.	M-P-045	CHEN J.M.	S-P-023	DIKO P.	S-O-024
BOUSMINA M.	M-P-045	CHEN M.	S-P-029		S-O-028
BOYDDEAEV S.R.	M-P-009	CHEN Y.G.	M-I-015		
BOZBEY A.	S-I-005	CHEN W.M.	M-I-019	DILLEY N.	S-I-051
	S-P-002	CHILOTTE C.	M-O-036	DIMITROV D.	M-O-026
	S-P-003		S-P-085	DJUHANA D.	M-O-024
BOZHKO A.	M-O-005	CHOCKALINGAM S.P.	S-P-066		M-P-054
BRACCINI V.	S-I-016		S-P-077		
BRANDLMAIER A.	S-I-049		S-P-081	DOBROWOLSKI V.	M-P-027
BRANDT E. H.	S-I-006			DOGAN N.	M-O-022
BROIDE E.	S-O-013	CHOI I.	S-O-009		M-P-042
BROTO J.	M-P-025	CHOI H.-S.	S-O-019		M-P-053
BUCHELNIKOV V.D.	M-O-003	CIMBERLE M.R.	S-P-009		S-P-051
BUD'KO S. L.	S-I-007	CIONTEA L.	S-P-004		S-P-063
	S-I-035	CIRELI A.	M-P-007		
	S-I-047	CIRILLO C.	S-O-008	DOGAN O.	S-P-052
		CITCI S.	M-P-057		S-P-066
BULAEVSKII L.	S-I-027	CLAUS H.	M-I-008		
BURZO E.	M-O-012	COLDEA M.	M-P-029	DOLIA S.N.	M-P-044
BUZZIN A.	M-I-003		M-P-061	DOLL D.	S-I-044
BYCHKOV I.V.	M-O-003			DOMINKO R.	M-O-023
CAI C.	S-P-029	COLDEA R.	S-P-068	DOROSINSKII L.	M-P-023
CAKMAKTEPES.	M-P-010	COLLINGS E.W.	S-I-010	DOS SANTOS D. I.	S-O-033
CAMPBELL A.M.	S-I-008		S-I-044	DOU S.	S-I-044
CAMPBELL A.S.	S-I-012	COSKUN A.	S-P-025	DOW J. D.	S-I-013
CANFIELD P. C.	S-I-035	COSKUN I.	M-P-063	DRAGIEVA I.	M-O-027
CANSIZ A.	S-O-003	COSTA A.T.	M-O-023	DUBONOS S.V.	S-I-032
	S-P-105	CRISANI A.	S-I-001	DUC T. H.	S-O-043
			S-I-011	DUKHNEKO A.V.	M-P-066
CAO S.	S-P-029			DURRELL J.H.	S-O-035
CARDWELL D. A.	S-I-011	CROITORU M. D.	S-I-039	DUZ I.	S-P-052
CARLESCHI E.	M-P-024	CRUZ M.M.	M-O-023		S-P-060
CARLSON S.	S-P-032	CUBITT R.	S-I-012	DUZGUN I.	S-I-013
CASACA A.	M-O-006	CULHA O.	S-P-028		S-P-034
CASANOVA F.	M-O-036	CVETKO D.	M-O-013		S-P-015
CELEBI S.	S-I-013				S-P-026
	S-O-041				S-P-027
	S-P-014	DALCHIELE E.A.	M-P-055		S-P-098
	S-P-015	DANG V. S.	S-I-001		
	S-P-026		S-I-011	DYACHENKO O.A.	S-P-058
	S-P-027	DANCER C. E. J.	S-I-020	D'YACHUK V.V.	M-O-023
	S-P-098	DAROCA D.P.	M-O-036	DZHUMANOV S.	S-P-069
CELENTANO G.	S-P-004	DAS D.	S-P-085		S-P-092
			M-P-012	EGE Y.	M-P-063

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EISTERER M.	S-I-015	GHARAIBEH M.	S-O-022	GULER E.	M-P-026
EKIN J. W.	S-I-009		S-P-042	GULER G.	M-P-074
ELMASSALAMI M.	S-O-017			GULER S.	M-O-030
EMHOFER J.	S-I-015	GHATTAS A.	S-O-014	GUNEL H.Y.	S-P-019
ERDEM R.	M-P-050		S-P-013	GUNER S.	M-P-055
	M-P-068			GUNGUNES H.	M-P-026
EROL M.	M-P-039	GAZANFARI N.	M-P-015	GUNGOR E.	S-O-012
	M-P-064		S-O-004	GUPTA A.	M-I-009
EROL M.	M-P-048	GHEISARI M.	M-P-072	GUPTAS.	S-P-078
ERTUGRUL M.	S-P-036	GHEISARI KH.	M-P-020	GURBUZ A.	M-P-007
ESCOFFIER W.	S-I-032	GHIGO G.	S-O-015	GURUSWAMY P.	S-I-042
FAIZ M.	S-O-040		S-P-033	GUSEINOV G.G.	M-P-062
	S-P-037	GILLIJNS W.	S-I-040	GUSEV S.A.	M-O-035
		GIUNCHI G.	S-P-033	GUSHOU S.	M-P-004
FARAHMANDJOU M.	M-P-034	GLOTER A.	M-O-013	GUTIERREZ J.	S-I-034
FARDMANESH M.	S-P-002	GLOWACKI B.A.	S-I-018	GUVEN K.	M-P-026
	S-P-003	GODINHO M.	M-O-006	HABERMEIER H.-U.	M-I-010
			M-O-023	HALLET X.	S-O-038
FEDORCHENKO I.V.	M-P-027	GOKAY U.S.	S-P-084	HAMDAN N. M.	S-I-021
FEDORENKO V.V.	S-P-030	GOLDACKER W.	S-I-019	HAMEDOUN M.	M-P-045
FELNER I.	M-I-005	GOLDMAN A.I.	M-O-024	HAMET J.F.	S-O-030
FENG Q.-R.	S-O-031	GOLOD T.	S-O-005	HAMPSHIRE D. P.	S-I-022
FENG X.	S-O-020	GOMEZ P. H.	M-P-036	HANASATO A.	S-I-002
FERDEGHINI C.	S-I-016	GÖMÖRY F.	M-I-007	HARSHMAN D. R.	S-I-014
	S-P-009		M-P-035	HARUYAMA J.	S-I-023
				HASAN (QASEER) M.K.	S-O-022
FERREIRA P.	M-O-006	GONCALVES A. P.	M-O-006		S-P-042
FERRETTI M.	S-P-009	GÖNNENWEIN S.T.B.	S-I-049	HASANAJN S.K.	M-P-018
FIORY A. R.	S-I-014	GOODRICH L. F.	S-I-009	HASANPOUR A.	M-P-033
FLÜKIGER R.	S-I-017	GOPINADHAN K.	M-O-028	HASCICEK Y.S.	S-I-051
FORGAN E.M.	S-I-012	GORDON R.	S-I-035		S-P-041
FRAERMAN A.A.	M-O-035	GORUR O.	S-P-061		
FRANK A.	S-I-019	GORYUNOV YU. V.	M-P-060	HATA Y.	S-O-037
FRIDMAN Y.A.	M-O-031	GOSHCHITSKII B.N.	S-P-030	HATTORI T.	S-I-025
FU D.J.	M-P-017	GOTO T.	M-I-011	HÉBERT S.	M-P-025
FU X. K. (BOB)	M-I-019	GOURGY S. H.	M-P-008	HEINONEN M.	M-P-024
FUJII H.	S-O-037	GOYAL S.C.	S-P-078	HENANDEZ M. G.	M-P-041
FUJIMAKI A.	S-I-005	GOZUAK F.	M-P-065	HEO C.-M.	M-P-059
FUJIKAWA R.	M-I-011	GOZZELINO L.	S-O-015	HERNANDEZ A. D.	S-O-016
FURUKAWA Y.	S-I-028		S-P-033	HERVIEU M.	M-P-025
GALLUZZI V.	S-P-004	GRASSO G.	S-O-034	HINKS D. G.	S-I-033
GAMBARDELLA U.	S-P-004		S-O-045	HIRATA K.	S-O-017
GAMZATOV A.G.	M-O-003		S-P-108	HORN S.	M-I-016
GANIEV O.K.	S-P-092			HORZUM N.	S-P-055
GARG K.B.	M-P-024	GRAY E.M.	M-P-030		S-P-072
	M-P-044	GRAY K.E.	M-I-008	HOSEINI M.	S-P-003
	S-P-032		S-I-025	HOSHIKAWA A.	S-O-037
			S-I-033	HOURMATALLAH A.	M-P-045
GARIFULLIN I.A.	M-I-006			HSEU H.S.	S-P-023
GAUR S.	M-P-044	GRIBKOV B.A.	M-O-035	HU X.	S-I-025
GELANDE C.	S-P-081	GRIGORIEVA I.V.	S-I-032	HUHTINEN H.	S-O-024
GELIR A.	M-P-071	GRITZNER	S-O-028	HUSNUTDINOV R.R.	M-P-042
GENCER A.	M-O-009	GROSS R.	S-I-048	HWANGBO C.K.	S-P-099
	M-P-040		S-I-049	ICHKITIDZE L.P.	M-O-019
	M-P-073				S-P-034
	M-P-075	GROVENOR C.R.M.	S-I-020		S-P-039
	S-O-004		S-I-050		S-P-048
	S-P-064		S-P-045		
	S-P-108				
GEPRÄGS S.	S-I-049	GROVER A.K.	M-P-047	ILIC B.	S-I-040
GERBALDO R.	S-O-015		S-P-065	INAM H.	M-O-026
	S-P-033	GSELL S.	M-I-016	INANIR F.	S-P-014
		GUCLU N.	S-P-104		S-P-015
GERBER A.	M-O-004		S-P-108		S-P-026
GEURTS R.	S-O-033				S-P-027
GHANNAM A.	S-O-040	GUCUMAN Y.G.	S-P-052	INOUE M.	M-I-011
	S-P-031		S-P-060	IQBAL M. J.	M-P-031

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IRJALA M.	M-P-036	KERVAN S.	M-P-040	KOUBAA M.	M-O-010
ISAKOV G.I.	S-O-024		M-P-073		M-P-022
	S-P-017		M-P-075		M-P-023
	S-P-074				
ISHAQUE M.	M-P-070	KHAIBULLIN R.	M-O-021	KOUBAA W.C.	M-O-010
ISLAM A.K.M.A.	S-I-024		M-O-030		M-P-022
ISLAM M.U.	M-P-070				M-P-023
ISLAM R.S.	S-P-071	KHALID W.	M-P-018		
ISNARD O.	M-P-011	KHAN M. A.	M-P-070	KOVÁČ J.	S-O-028
JAGLIČIĆ Z.	M-O-013	KHANOV L.N.	M-O-003	KOVÁČ P.	S-O-029
JAVADPOUR S.	M-P-020	KHAPAEVA T. M.	M-O-018	KOYAMA T.	S-I-025
JESUDASAN J.	S-P-066		M-P-027	KRAMER R.	S-I-040
JIN G.	S-P-029			KRASNOV V.M.	S-O-005
JIRSA M.	S-O-026	KHARMOUCHE A.	M-P-021	KREYSSIG A.	M-O-024
JO Y.	S-O-043	KHOSHAMAN A. H.	S-P-003	KRZYMANSKA B.	M-P-027
JOHN J.	S-P-102	KHOVAILO V.V.	M-O-003	KUCUKOMEROGLU T.	S-P-027
JOSHIN N.	M-O-011	KHUDAYBERDIEV Z.S.	S-P-092	KUDYMOWA.	S-I-019
JOTANIA R.B.	M-O-034	KILANSKI L.	M-P-027	KULRIYA P.K.	M-P-012
JUN S.-H.	M-O-029	KILIC A.	S-O-004	KUMAGAI K.	S-I-028
	M-P-054		S-P-108	KUMAR A.	M-P-003
JUNG C. U.	S-O-009	KIM D.-H.	M-O-014	KUMAR S.	M-P-044
JUNG M.-H.	S-O-043		M-O-025	KUPRIYANOV M.Y.	M-I-016
KADOWAKI K.	S-I-025		M-O-029	KURBAKOV A.	M-P-025
	S-I-033		M-P-054	KURBANOV U.T.	S-P-092
	S-I-052	KIM H.J.	S-P-020	KURTER C.	S-I-025
KAKEYA I.	S-I-052	KIM H.-J.	S-O-043		S-J-033
KAKI A. AJT	S-P-049	KIM H. M.	S-P-022	KUTUK S.	S-P-076
KALENDER O.	M-P-063		S-P-106	KWOK W. K.	S-I-025
KALKAN B.	S-O-007	KIM S.H.	S-P-020		S-I-033
KALT H.	M-O-011	KIM Y.C.	S-P-106	KWON W.S.	S-P-106
KAMELI P.	S-O-023	KISHAN H.	M-P-003	KWON Y.-K.	S-P-022
KANG B.	S-O-043		S-I-003		S-P-106
KANG B.-W.	M-O-025		S-O-006		
KANG T. W.	M-P-017		S-O-024	LAIHO R.	S-O-024
KAŇUCHOVÁ M.	S-O-028		S-P-005	LANG W.	S-I-029
KAO H.-C. I.	S-P-023		S-P-107	LAPPAS A.	M-O-013
KARACA I.	S-P-101			LAVIANO F.	S-O-015
KARATAS S.	M-P-074	KITAZAWA H.	S-O-037		S-P-033
KARCI A.B.	S-P-006	KLEVETS P.N.	M-O-031		
KARKIN A.E.	S-P-030	KLIMOV A.Y.	M-O-035	LEE B.W.	S-O-009
KARPINSKI J.	S-I-026	KLING A.	S-I-019	LEE E.Y.	S-P-106
	S-P-054	KOCABAS K.	S-P-096	LEE H.-S.	S-O-043
KARTOP U.G.	M-P-069	KOH D. W.	M-P-017	LEE J.D.	S-P-106
KASAHARA S.	S-O-017	KOKABI A.	S-P-003	LEE S. H.	M-P-054
KASHYAP S. C.	M-O-028	KOLEDOV V.V.	M-O-003	LEE S.-I.	S-O-043
	M-P-056	KOLEMEN U.	S-O-041	LEE S.L.	S-I-012
			S-P-014	LEE S.W.	M-P-017
			S-P-101	LEIBOVITCH G.	S-P-018
KATRYCH S.	S-I-026			LI C.-P.	M-O-036
	S-P-054	KONDOR N.	S-I-028	LI Q.	M-I-008
		KOPARAN E. T.	S-I-050	LI Q.	S-I-033
KAVAS H.	M-O-001	KORKMAZ M.	M-P-016	LI Y.	S-O-020
	M-O-033	KOROLEVA L.I.	M-O-018	LI Z.	S-P-020
			M-P-027	LI Z.Z.	S-P-044
KAVEČANSKÝ V.	S-O-028			LIN S.	S-I-025
KAZAN S.	M-O-026	KOSEOGLU H.	S-I-033	LING D.C.	S-P-023
	M-P-049		S-P-016	LOFFLER W.	M-O-011
	M-P-055		S-P-021	LOHNEYSEN H.V.	M-O-011
KAZHEVA O.N.	S-P-058	KOSEOGLU Y.	M-O-001	LOPARDO G.	S-O-015
KEALEY P.G.	S-I-012		M-O-033		S-P-033
KECHIK A. M. M.	S-I-011		M-P-065	LOPATIN O.N.	M-O-030
KERIMOVA T.G.	M-P-019			LOVCHINOV V.	M-O-016
KERVAN N.	M-P-040	KOSHELEV A. E.	S-I-025	LUN Y.K.	M-P-066
	M-P-073		S-I-027	LUNG C.	S-P-068
	M-P-075		S-I-033	LYONS D.	S-I-044
				LYU K.-K.	M-O-025

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MATEJ	S-O-043			S-P-053
MAYAZ K.	S-P-020	MIKHEENKO P.	S-I-001	S-P-061
MACHIDA M.	M-P-018		S-I-011	
MACRE M.A.	S-I-025		S-I-020	M-O-026
MAGALHÄES S.	S-I-041		S-I-031	M-P-001
MAGNANO E.	S-P-040	MILOŠEVIĆ M. V.	S-O-033	S-O-022
MAGNAN A.	M-O-023			S-O-036
MAJOROS M.	M-P-024	MINAMI H.	S-I-025	S-P-038
MAJKIC G.	M-P-025	MINETTI B.	S-O-015	S-P-042
MAKAROVA T.L.	S-I-018		S-P-033	
MALKIMOVA G.M.	S-I-036			OBERMEIER G.
MALAGOLI A.	M-P-055	MISKO V.R.	S-I-032	OBRADORS X.
MILINCINI A.	M-P-042	MITCHELL J.F.	M-I-008	S-I-034
MANFRINETTI P.	S-I-016	MIYAJIMA S.	S-I-005	M-P-020
MANGALARAJ D.	S-P-004	MIYAZAKI T.	M-O-022	M-O-014
MANI D.K.	S-I-016	MOCHIKU T.	S-O-037	M-O-029
MANIOS E.	S-P-009	MOJUMDER M.A.	S-P-050	M-P-054
MANOLACHE S.	M-P-028	MONTICONE E.	S-O-015	M-P-059
MANOUCHEHRI S.	S-P-051	MORA DE LA P.	S-O-027	S-P-055
MARCONI D.	M-O-015	MORCHSHAKOV V.	M-P-038	S-P-072
MARENKIN S.F.	M-P-013	MOREIRA M.D.	M-O-023	S-P-075
MARIANTONI M.	S-P-073	MOSHCHALKOV	S-I-040	S-O-034
MARKOWITSCH W.	M-P-032	V.V.	S-O-038	S-P-075
MARTIN C.	S-P-043	MOFTAKHARZADEH A.	S-P-003	
MARTIN C.	M-P-027	MOSBAH M.-F.	S-P-049	M-P-007
MARTINELLI A.	S-I-048	MOZAFFARI M.	M-P-032	S-P-062
MARTINEZ E.	S-I-029		M-P-033	S-P-087
MARUYAMA S.	S-I-035		M-P-072	
MARX A.	M-P-025		S-O-023	OOGANE M.
MASOUDI H.	S-I-016	MOZZHUKHIN G.V.	M-P-042	M-O-022
MASROUR R.	S-P-009	MUDGELO M.	S-O-006	S-I-049
MASSIDDA S.	S-I-041		S-P-005	M-O-020
MATEI I.	S-I-023		S-P-107	M-P-051
MATSUDA Y.	S-I-048	MUKHOPADHYAY S.	M-O-027	S-P-047
MATSUMOTO H.	S-O-023	MÜLLER C.	M-I-016	M-I-008
MATSUSHITA Y.	M-P-045	MUMTAZ A.	M-P-018	M-P-042
MAZOV L. S.	S-I-030	MURAKAMI M.	M-O-007	S-I-028
MCINTYRE P.	S-P-044	MURALIDHAR M.	S-O-026	S-P-093
MÉCHIN L.	S-P-073	MUSTAFAYEVA K.M.	M-P-019	M-O-009
MEENA R.S.	S-I-028	MUTLU Z.	S-P-052	S-O-007
MENGHINI M.A.	S-I-025		S-P-060	S-O-007
MENO T.	S-O-037	NADOEVA I.	S-P-089	S-O-012
MENZEL E.	S-O-021		S-P-091	
MERGEN A.	M-I-019			M-P-009
MERZLIKIN A.	S-O-030	NANDI S.	M-O-024	S-P-055
METLUSHKO V.	S-P-005	NANE O.	M-O-009	S-P-072
METSKHVARISHVILI I.	S-I-040	NAQIB S.H.	S-P-071	
METSKHVARISHVILI M.	S-P-089	NARLIKAR A. V.	S-O-024	S-O-004
	S-P-091	NARSALE A.M.	S-P-102	S-O-018
MEYNERS D.	M-I-011	NATARAJ D.	M-P-028	
MEZZETTI E.	S-I-048	NAVARRO O.	S-O-027	M-P-016
MIAH M. I.	M-P-005	NAZLIBILEK S.	M-P-063	M-O-009
MIHALACHE V.	M-P-006	NEFEDOV A.	M-O-021	M-P-040
MIKHAILOV G.G.	M-I-014	NEUMANN M.	M-P-029	S-P-026
	S-O-015		M-P-061	S-P-027
	S-P-033			S-P-098
MEZNICKI A.	S-P-089	NEZIR S.	S-P-070	
METSKHVARISHVILI M.	S-P-091	NIARCHOS D.	M-O-015	S-P-045
			M-P-013	S-P-082
				S-P-088
MIYAZAWA T.	M-I-014	NIEMCZYK T.	S-I-048	
MIYAZAWA T.	S-O-015	NIYAIFAR M.	M-P-072	S-P-053
MIYAZAWA T.	S-P-033	NORDBLAD P.	S-P-032	S-P-064
MIYAZAWA T.	M-P-030	NOVOTORTHEV V.M.	M-P-027	
MIYAZAWA T.	S-P-047	NOZDRIN Y. N.	M-O-035	S-P-097
MIYAZAWA T.	M-O-003	NURGALIEV T.	S-P-010	M-P-039
		NURSOY M.	S-P-024	M-P-064

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OZYUZER L.	S-I-025 S-I-033 S-O-034 S-P-016 S-P-021 S-P-046	QIN W. QIN Z.G. QURESHI A. RADULOV I. A. RAFFY H. RAKOTO H.	S-O-020 S-P-029 M-P-005 M-P-006 M-O-016 S-P-044	SARIKURKCU C. SARKAR A. SATO K.L. SAVASKAN B.	S-P-025 S-I-001 S-I-011 S-I-038 S-P-088
PAJ S.P. PANDYA D. K.	S-P-102 M-O-028 M-P-056	RAMAKRISHNAN S. RAMEEV B.Z.	M-P-025 S-P-065 M-I-013 M-O-030 M-P-042 M-P-049 M-P-053	SCHAEFERS M. SCHLACHTER S.I. SCHMIDT C. SCHRECK M. SCHULLER I. K. SEBT S. A. SEDKY A. SEDOV V.L.	M-I-014 S-I-019 S-I-019 M-I-016 M-O-036 M-P-034 S-P-094 S-O-042
PALAU A. PALENZONA A.	S-I-034 S-I-016 S-P-009	RAMES M.	S-O-026	SELER E.	M-I-007
PALLECCHI I. PANAGIOTOPoulos I.	S-I-016 M-P-013	RAO A.M. RAQUET B.	S-I-023 M-P-025	SEMBA K.	S-I-048
PARDO E.	M-I-007	RASEKH SH.	S-I-041	SENATORE C.	S-I-017
PARHIZGAR S. S.	M-P-034		S-P-040	SEONG K.C.	S-P-020
PARK C. J.	M-P-017			SERFATY S.	S-P-080
PARK H. J.	S-P-106	RAYCHAUDHURI P.	S-P-066	SERTKOL M.	M-O-001
PARK M.-S.	S-O-043		S-P-081		M-O-033
PARMIGIANI F.	M-P-024				
PARVIN F.	S-I-024	RAZMKHAH S.	S-P-003	SHANENKO A. A.	S-I-039
PASQUINI G.	M-O-036 S-P-085	RAZUMOVSKAYA O.N. REDNIC L.	M-O-002 M-P-029 M-P-061	SHAPIRO A.J. SHARMA P. SHAVROV V. G. SHIM J.-H.	M-I-015 M-O-034 M-O-003 M-O-029
PATURI P.	S-O-024			SHINOHARA H.	S-I-023
PEDARNIG J. P.	S-I-029	REDNIC V.	M-P-029	SHISHIDO H.	S-I-028
PEETERS F.M.	S-I-032 S-I-039		M-P-061	SHITSEVALOVA N.YU.	M-P-060
	S-O-016 S-O-033	REISS G. REZNICHENKO L.A.	M-I-014 M-O-002	SHTRIKMAN H.	S-P-047
PEKERTEN B.	S-P-019	RILLFLEISCH M.	S-I-044	SHULL R.D.	M-I-015
PERINI E.	S-P-033	RISS O.	M-O-004	SIDIQUAH M. R.	M-P-031
PETRISOR T.	S-P-004	ROGACKIAND K.	S-I-026	SIDORENKO A.	M-I-016
PHILLIPS J.	S-I-044	ROGOV V.V.	M-O-035	SILHANEK A.V.	S-I-040
PIAO H.	M-O-014	ROMANO G.	S-I-016	SIMSEK Y.	S-I-033
	M-O-029 M-P-054	ROSA M..A.	M-O-006		S-P-016
PINTO R.	S-P-102	ROSENKRANZ S.	M-I-008		S-P-021
PIRAUX L.	S-O-038	ROSENSTEIN B.	S-P-007	SINGH A.	M-O-011
PISSAS M.	M-O-015	RUFOLONI A.	S-P-004	SINGH F.	M-P-012
POMAR A.	S-I-034	RUTTER N.A.	S-O-035	SINGH R. P.	M-P-047
POP A.V.	S-P-043	RYAZANOV V.V.	M-I-016	SINGH S.K.	M-P-003
	S-P-068 S-P-073	RYDH A.	S-O-005		S-P-005
POP M.	S-P-068	RYU K.	S-P-020	SINGHAL R.K.	M-P-044
POP V.	M-P-011 M-P-061 S-P-073	SAEKI M.J. SAFRAN S. SAGSOZ M.E.	S-O-011 S-P-108 S-P-036	SIRI A.S.	S-P-009
	S-P-068	SAHIN O.	S-P-101	SOHRABI M.	S-O-001
PORTESI C.	S-O-015	SAHINGOZ R.	M-P-048	SOKOLOV B.Y.	M-P-009
PREGELJ M.	M-O-013	SAITO S.	S-I-023	SOLANO E.	S-I-048
PRISCHEPA S.L.	S-O-008	SAITO S.	S-I-048	SOLOVYOV N.	M-I-007
PROBERT M.	M-I-012	SAITOVITCH E.	M-P-044	SONG X.	S-O-020
PROVENZANO V.	M-I-015	SAKURABA Y.	M-O-022	SOTELO A.	S-I-041
PROZOROV R.	S-I-035 M-O-024	SALAMA K.	S-I-036		S-P-040
		SALAZER J.S.	M-P-028		
		SALEM A.F.	S-O-002	SOUNDARARAJAN D.	M-P-028
			S-O-040	SOZERI H.	M-P-015
			S-P-031		M-P-071
			S-P-037		M-P-075
					S-P-006
PU M.H.	S-P-109	SALEM M. B.	S-P-013		S-P-108
PUIG T.	S-I-034		S-P-051		
PUTIN G.	M-O-005			SPELLER S.C.	S-O-035
PUTTI M.	S-I-016 S-P-009	SALLUZZO M. SAMOKHVALOV A.V.	S-I-037 M-O-035 S-P-080	STAMOPOULOS D.	M-O-015 M-P-013
PUZNIAK R.	S-I-026	SANDIER E. SARAIVA A.	M-O-006 S-P-077	STIUFIUC G.	S-P-043

SUBASI H.	M-P-042 M-P-053	TROPEANO M.	S-I-016 S-P-009	XIA W. XING Y. XIONG J. XU B.	M-P-066 M-P-044 S-O-020 S-I-032
SUMPTION M.	S-I-044	TROYANCHUK I.O.	M-P-038	YA Z.	M-P-066
SUMPTION M.D.	S-I-010	TRUNIN M.R.	S-O-025	YAHYA A.K.	S-P-001
SURGERS C.	M-O-011	TSUJIMOTO M.	S-I-025	YAKINCI M. E.	S-I-052
SUSNER M.	S-I-044	TULUN M.	M-P-071	S-O-041	S-P-010
SUSNER M.A.	S-I-010	TUNYAGI A. R.	M-P-061	S-P-021	S-P-056
SUZER S.	S-O-007	TURKOGLU F.	S-I-033	UMEK P.	S-P-063
SUZUKI A.	M-O-007		S-P-016	UMMARINO G.A.	S-P-093
SYAMAPRASAD U.	S-I-042		S-P-021	USHERENKO S.	S-P-097
SZYMCZAK R.	M-P-027			M-O-013	S-P-100
TABET N.	S-P-037			S-P-033	S-P-103
TACHIKI M.	S-I-025			S-P-017	
	S-I-043			S-P-074	
TAGIROV L.	M-O-021	UZUN O.	S-O-041	YAKINCI Z.D.	S-P-093
TAGIROV L.R.	M-I-016		S-P-101		S-P-103
TAKAYANAGI H.	S-I-048		S-P-104		
TAKEYA H.	S-O-017			YAKUNIN M.	S-O-013
	S-P-065	VAJPAYEE A.	S-O-006	YALCIN O.	M-P-068
			S-P-005		M-P-069
TANATAR B.	S-P-067				
TANG J.	S-O-020	VANACKEN J.	S-O-038	YAM J. H.	S-P-023
TANG J.	S-O-020	VANNETTE M. D.	S-I-035	YAMAGUCHI H.	S-I-025
TAOGLUM M.	S-O-034		M-O-024	YAMAKI K.	S-I-025
THO B.	S-O-020				S-I-052
TARANTINI C.	S-I-016	VANNOZZI A.	S-P-004		
TARI S.	S-O-034	VARGHESE N.	S-I-042	YAMAMOTO T.	S-I-025
TARIGAN K.	M-O-025	VARILCI A.	S-P-008		S-I-033
	M-P-059		S-P-061		
TASKAEV A.S.	M-O-003	VDOVICHEV S.N.	M-O-035	YAN J.	M-O-024
TEMPLI M. M.	S-O-038	VENEZUELA P.	M-O-023	YANG C.P.	M-P-038
TEMPLI S. M.	S-O-038	VENKATESHVARAN D.	S-I-049	YANG H. D.	M-P-014
TEPE M.	S-P-006	VERBENKO I.A.	M-O-002	YANMAZ E.	S-I-050
	S-P-084	VERSELLEN N.	S-I-040		S-O-041
		VERMEULEN H.	S-O-044		S-P-045
TERZIOGLU C.	S-P-008	VIGNOLO M.	S-I-016		S-P-076
	S-P-024	VIJAY Y.K.	M-P-012		S-P-079
	S-P-053	VILLEGAS J.E.	M-O-036		S-P-082
	S-P-061	VINCKX W.	S-O-038		S-P-088
	S-P-064	VINNIKOV L.Y.	S-I-032	YAO X.	S-P-029
		VINOD K.	S-I-042	YASAR E.	M-P-026
THEAN R.	M-O-012	VINOGRADOV A.	M-I-011	YASAR N.	S-P-096
THALMAIER G.	S-P-004	VODOLAZOV D.Y.	M-P-042	YASUOKA H.	S-O-037
THIMONT Y.	S-O-030	VOJENČÍAK M.	M-I-007	YAVUZ M.	M-I-019
THOMAS A.	M-I-014		M-P-035	YEGEN D.	S-P-008
THIECKS R.	M-I-016			YERLI Y.	M-P-053
THIE B.D.	S-P-007	VOYTENKO A.P.	M-O-031	YI S.-Y.	S-O-031
THOR R.J.	S-I-020			YIGIT A.	M-P-002
THONO K.	S-O-017	WANCHOO S.K.	S-P-102		M-P-058
THOMSIC M.	S-I-044	WANG Y.-B.	S-O-031		
	S-I-051	WEBER H. W.	S-I-015	YILDIRIM T.	M-I-017
		WEIGAND M.	S-O-035	YILDIZ S.	S-P-014
THOMT C.V.	M-P-047	WEILER M.	S-I-049	YILGIN R.	M-O-022
	S-P-065	WEISS K.	S-I-019		M-O-026
		WELP U.	S-I-025		M-P-049
			S-I-033		
THONGUC B.T.	M-P-057			YILMAZ F.	S-P-101
THONA E.	S-P-010			YILMAZ M.	S-P-052
	S-P-083	WEN H.-H.	S-I-045		S-P-060
		WESTERHOLT K.	M-O-026		
			M-P-049		
THURILL M.	S-P-028			YILMAZ S.	M-P-048
THUKAYA R.	M-P-042			YILMAZ Y.	M-P-071
	M-P-053	WINKLER W.	S-P-086	YILMAZLAR M.	S-P-053
			S-P-090		S-P-070
			S-P-095		
THUMKE M.	M-O-033				
THUMS S.	S-P-019				
THUPATHI B.	M-P-012	WONGSATANAWARD	M-O-007	YONAMINE A.H.	S-O-011
THUPATHI V.	S-P-066	A.	S-P-097	YOO Y.-G.	M-O-025
		WUERNISHA T.	S-O-037		M-P-059

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YOON I. T.	M-P-017
YOUSEFI M. H.	M-P-032
YU S.-C.	M-O-014
	M-O-025
	M-O-029
	M-P-054
	M-P-059
YUCEL E.	S-P-012
YUE J.	S-I-044
ZABEL H.	M-O-021
ZANDRON O.S.	S-P-059
ZAOUI A.	M-I-018
ZASHCHIRINSKII D.M.	M-P-027
ZDRAVKOV V.	M-I-016
ZHAI Y.	S-P-109
ZHANG F.	S-O-020
ZHANG J.	S-P-029
ZHANG T.	M-I-015
ZHANG Y. D.	M-P-059
ZHAO H.	S-I-032
ZHAO Y.	S-P-109
ZHENG H.	M-I-008
ZHIGADLO N.	S-I-026
ZIHLIF A.M.	S-P-054
ZIQ KH. A.	M-P-004
	S-O-002
	S-O-010
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	S-P-011
	S-P-031
	S-P-037
ZOUAOUI M.	S-O-014
	S-P-013
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<u>Abstract</u>	AL-SAWALHA A.	S-P-094	AZZOUZ F. B.	S-P-013
<u>Number</u>	AL-SHANGITI D. M.	S-O-010		S-P-051
	ALSMADI A.M.	M-P-004		
	ALTHAMMER M.	S-I-049	BABAEI-BROJENY A.A.	S-O-001
	ALTIN S.	S-P-093	BABAYEV A.M.	M-P-010
S-O-008		S-P-097	BABU N. H.	S-I-011
M-P-019		S-P-100	BADTALOV A.B.	M-O-002
S-I-001		S-P-103		M-O-003
S-I-011				
S-I-020	ALTSHULER T.S	M-P-060	BAELUS B.J.	S-I-032
	ALTUG D.T.	M-P-010	BAG O.	S-P-070
M-P-034	ALTUNBAS M.	S-P-014	BAIK S. K.	S-P-106
S-P-019		S-P-015	BAKKALOGLU O.F.	M-P-074
M-I-001			BALASZ I.	M-P-029
M-P-037	ALVEROĞLU E.	M-P-071	BALCI Y.	S-P-056
S-O-023	ALY A.H.	S-P-099		S-P-063
M-P-062	AMAVEDA H.	S-P-040		S-P-093
M-O-009	AMEMIYA N.	S-I-002		S-P-097
M-P-075	AMIGHIAN J.	M-P-032		S-P-100
		M-P-033		S-P-103
		M-P-072		
S-P-033			BANERJEE R.	S-P-081
M-P-042			BAO L.Z.	M-P-066
S-I-005	AMIRA A.	S-P-049	BARHOUM S.A.	S-O-022
S-P-057	AMIROV A.A.	M-O-002	BARNER K.	M-P-038
M-O-021	ANDO Y.	M-O-022	BARYSHEV A.	M-I-011
M-O-026	ANDRÉ G.	M-P-025	BASARAN A.C.	M-O-001
S-P-002	ANDREONE D.	S-O-015		M-O-032
	ANDRÉS A. DE	M-P-041		M-P-037
	ANGUREL L. A.	S-I-041		M-P-055
M-P-034	ANIS-UR-REHMAN M.	S-O-039		M-P-065
S-I-051	ANNABI M.	S-O-014		M-P-069
M-P-058				
M-O-020		S-P-013		
M-P-051		S-P-051		
			BASOGLU M.	S-I-050
S-P-056	ANNAORAZOV M.P.	M-P-038		S-P-045
S-P-063	ANTAL V.	S-O-028		S-P-088
S-P-093	APOSTOLOV A.	M-O-016		
S-P-097	ARAS E.	S-O-004	BASSANI E.	S-P-033
S-P-100	ARÇON D.	M-O-013	BATLOGG B.	S-I-026
S-P-103	ARDA L.	M-P-037	BAYKAL A.	M-O-001
		S-P-035		M-O-033
		S-P-041		M-P-065
M-O-008		S-P-063		
M-O-017			BAYRI A.	M-P-043
M-O-022			BECK R.	S-P-018
M-O-030	ARMENIO A.A.	S-P-004	BEKERIS V.	M-O-036
M-O-032	ASHIQ M. N.	M-P-036		S-P-085
M-O-033	ASKERBEYLI	S-P-067		
M-P-005	(TAGIYEVA) R.			
M-P-006	ASKERZADE I.N.	S-I-046	BELENLI I.	S-P-008
M-P-042	ASLAN H.	S-P-025		S-P-012
M-P-049	ASLAN O.	S-P-062		S-P-024
M-P-067		S-P-087		S-P-057
				S-P-061
ALBAYRAK E.	M-P-002	ATAOGLU S.	S-P-041	S-P-108
	M-P-058	ATTANASIO C.	S-O-008	
		AVASTHI D.K.	M-P-012	
ALBISS B. A.	S-O-022	AVCI I.	S-P-002	BELL C.
	S-O-036	AVGIN I.	M-P-039	BELODEDOV M.V.
	S-P-042		M-P-064	BEN AZZOUZ F.
				S-O-014
				BEN SALEM M.
				S-O-014
ALESSANDRINI M.	S-I-036	AUGIERI A.	S-P-004	BENEÀ D.
ALEXANDROV G.G.	S-P-058	AWANA V.P.S.	M-P-003	M-P-011
ALIEV A.M.	M-O-003		S-I-003	
ALIYEV Y.I.	M-P-062		S-O-006	BENMAAMAR F.
ALI-ZADE R.A.	M-P-046		S-O-024	BENYOUSSEF A.
AL KHAWAJA U.	S-O-036		S-P-005	M-P-045
	S-P-038		S-P-107	BERBARANI C. H.
				M-P-062
ALMOG B.	M-P-008	AYBAR H.S.	M-P-038	BERDIYOROV G. R.
AL-SAFADI D.	M-P-001	AYDIN H.	S-P-024	S-I-004
	S-P-011	AYTEKIN O.	M-P-043	S-I-016
		AYYUB P.	S-P-081	BERNSTEIN P.
				S-O-030
				S-I-020

Structural and Magnetic Properties of NiAlC Nano-Powders

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Introduction

Mechanical alloying (MA) has been used widely to prepare metastable phases such as supersaturated solid solution, amorphous phases and nanostructure powders, starting from a mixture of elemental components or inter-metallic compounds in many alloy systems [1,2]. This technique has been extensively used in inter-metallic compounds to prepare nano-crystalline structures [3].

In the last century, a large number of amorphous transition-metal-metallloid (TM-M) alloys have been extensively investigated for their structural, electronic and magnetic properties. The magnetism in TM-M alloys is far from being understood [4].

Metal-metallloid systems such as Fe-Si and Fe-C have been extensively studied for application to magnetic and electronic devices, recently [3]. The role of the metallloid such as C, Si on the magnetic properties has been studied in Fe-, Co-, and Ni-based binary systems [5].

Carbon added magnetic alloys such Fe-C or Co-C, which are commonly used in industry, have been extensively studied due to their complicated nano-composite structure originating on a strongly phase change dependent on the carbon concentration [6].

Experiment

$(\text{Ni}_{0.5}\text{Al}_{0.5})_{90}\text{C}_{10}$ metastable alloy was prepared by the mechanical alloy using a SPEX 8000 mixer and mill with stainless steel ball. The starting material was a mixture of pure Ni, Al, and C powders.

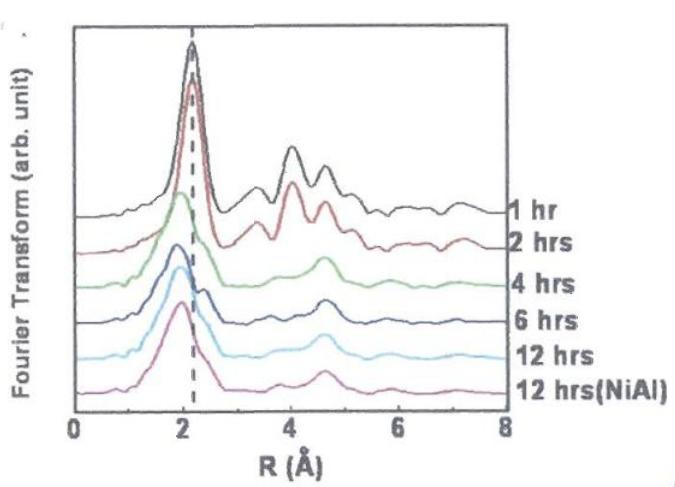
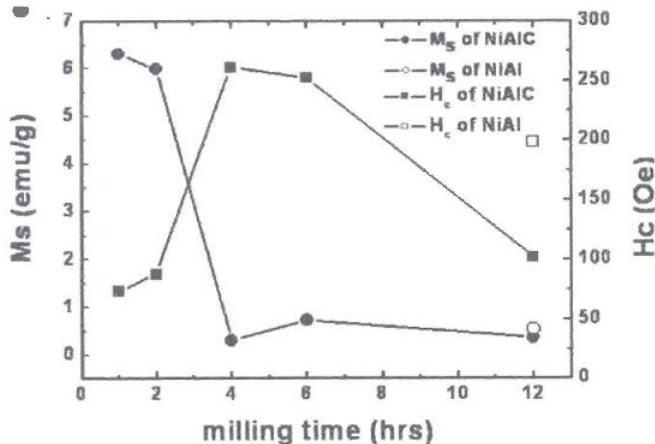
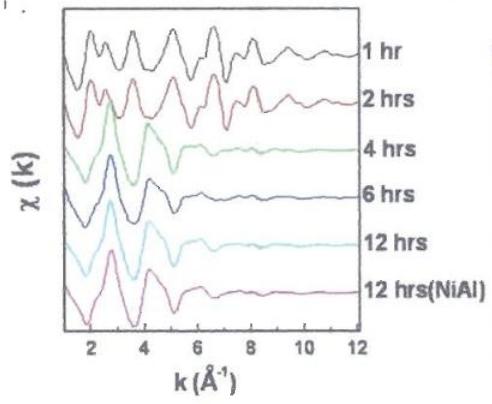
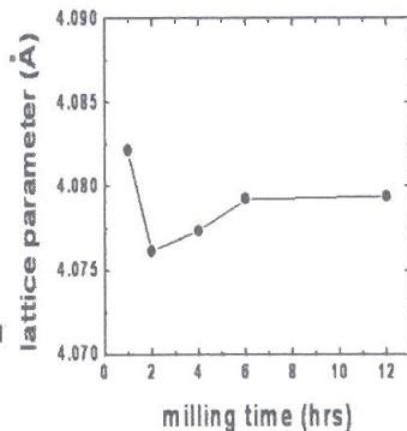
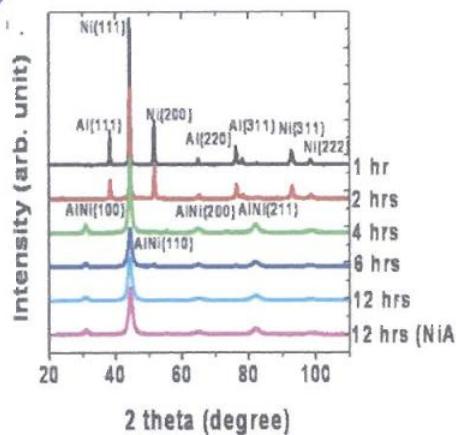
In order to study the alloying process, the milling time was varied from 1 hr to 12 hrs. The mechanical alloying was performed in Ar atmosphere to prevent oxidation during the alloying process. The ball to powder weight ratio was 20:1.

Magnetization and coercivity of the samples were measured by using the vibrating sample magnetometer (VSM) with the maximum field of 1 kOe. The variations of structure were examined by XRD and EXAFS. XRD data were obtained with a monochromatic Cu-K α radiation. Particle size was estimated by Scherrer formula from the XRD patterns.

EXAFS experiments were carried out at the 3C1 EXAFS beam line of the Pohang Light Source (PLS) in the Pohang Acceleratory Laboratory. The PLS was operated with an electron energy of 2.5 GeV and maximum current of 200 mA.

The EXAFS spectra were obtained at Ni K-edge (8346 eV) in the transmission mode at room temperature. The ion chambers were filled with the pure nitrogen gas. EXAFS data were analyzed with FEFF.

Results and discussions



Conclusions

Mechanically alloyed Ni45Al45C10 alloys for different times were studied by XRD, EXAFS and magnetization. In the initial stage of alloying time, the Ni and Al phase rapidly decreased. After 4 hrs milling time, structural phase showed fcc NiAlC structure and there is no long range ordering around Ni central atom. It means that the alloy was formed with nano-sized structure after 12 hrs milling time. The magnetization showed small value with compare to pure Ni which is occurred from magnetic dilution.