		5/161/62/004/012/043/052 B125/B102	
	14.7589 Authors:	Verote Ytte R., and Ramus, L. T.	
· · ·	TITLE:	The origination of recombination centers in silicon in fast thermal hardening	1
	silicon has n Azarkin and Y Rev., 106, 14 temperatures impurities pe smaller than temperature 1 100-500°C/sec	Fizika tverdogo tela, v. 4, no. 12, 1962, 3663-3665 fluence of thermal hardening on the carrier lifetime in itherto been studied only between 300 and 850°C (e.g. V. A. itherto been studied only between 300 and 850°C (e.g. V. A. it. Z. Mazel'. FTT, 2, 2089, 1960; H. Ross, I. Madigan. Phys. 28, 1957). Here such studies are extended to hardening 28, 1957). Here such studies are extended to hardening of up to 1200°C. At these elevated temperatures the risk of enetrating into the silicon from the heating apparatus is much at lower temperatures. The governing quantity for high- at lower temperatures. The governing quantity for high- hardening is the cooling rate, which must amount to hardening is the cooling rate, which must amount to c for the "freezing" of the recombination centers that arise and 1300°C. The authors achieved a cooling rate of at least C/sec. The specimen is kept at the hardening temperature for	

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24.7500	5/161/62/004/012/043/052 B125/B102	
AUTHORS:	Nosov, Yu. R., and Ramus, L. T.	
FITLE:	The origination of recombination centers in silicon in fast thermal hardening	
PERIODICAL:	Fizika tverdogo tela, v. 4, no. 12, 1962, 3663- <u>3</u> 665	V.
silicon has hi Azarkin and Ye Rev., 108, 142	<pre>luence of thermal hardening on the carrier lifetime in therto been studied only between 300 and 850°C (e.g. V. A. . Z. Mazel'. FTT, 2, 2089, 1960; B. Ross, I. Madigan. Phys. 8, 1957). Here such studies are extended to hardening f up to 1200°C. At these elevated temperatures the risk of</pre>	

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The origination of recombination ...

20 to 60 minutes and is subsequently pushed by a falling weight into a cooling vessel filled with oil. Thermal treatment without hardening shortened the carrier life to no more than 10⁻⁶ sec. At 1200°C, the lifetimes in the specimens hardened by such pushing were three to four times shorter than those in specimens which were simply thrown into the oil. p-n junctions having areas of $(1-2) \cdot 10^{-3}$ cm² are produced from the quenched n-type Si plates ($q \sim 7.5$ and 15 ohm cm) by sealing in aluminum and a gold foil doped with antimony. The minority carrier lifetime in the base of the diode so produced was determined at a high injection level from the transient response of the p-n junction using the phase method. The experimental arrangement comprised a generator of the type PHN-1 (GNI-1), a pulse amplifier and an electron-ray tube. $N \sim exp(-0.83 ev/kT)$ holds for the concentration of the recombination centers arising in fast thermal hardening of silicon (at 960-1200°C). This result agrees fairly well with the results of the aforementioned previous papers. The obvious correlation between the recombination centers arising in thermal hardening and the structural defects of the lattice is explained by the necessity to introduce Au (minimum concentration 10^{15} cm⁻³) into silicon when lifetimes of $\tau \sim 10^{-6}$ sec are to be achieved. There are 2 figures. July 16, 1962 SUBMITTED: Sard 2/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000

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山162 5/181/62/004/012/044/052 B125/B102 Nosov, Yu. R. AUTHOR: Neutron irradiation of silicon p-n junctions TITLE: Fizika tverdogo tela, v. 4, no. 12, 1962, 3665-3667 PERIODICAL: TEXT: The present article shows that the carrier lifetime in the base of ... a silicon diode cannot be shortened to more than ~ 0.1 µsec by bombarding the diode with neutrons. According to I. Evans (Direct Current, 4, No. 3, 68, 1958), the recombination centers resulting from nuclear irradiation are partly disectivated. Accordingly, aluminum wires were sealed in n-type silicon crystals. The p-n junctions so produced were exposed to neutron irradiation. A foil of antimony-doped gold served as optical contact. For comparison, p-n junctions produced by the same technique were subjected to thermal hardening at 1200°C and then likewise exposed to neutron irradiation. The effective lifetime τ of the non-equilibrium carriers in the base of the diodes referred to was determined from the junction characteristics before and after irradiation. Under the present experimental conditions t is equal to the minority carrier lifetime in Card 1/2

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Neutron irradiation of silicon	s/181/62/004/012/044/052 B125/B102	
the case of a high injection level and $\tau = 2$ $U_{rev} = 30v$, Q_{tot} is the total charge transfer and $I_{d-c} = 30$ ma. The results averaged over irradiation of the p-n junctions with neutron are compared. τ is related with the integra $\tau \sim N^{-0.6}$ and not as $\tau \sim N^{-1}$ (e.g. L. Orile 1174, 1959). With $N > 3 \cdot 10^{15}$ cm ⁻² , the shown affected by the irradiation density. With Noresistance decreases by a factor varying from resistance increases by more than twice as more characteristics of certain p-n junctions have	erred by the reverse current V_{tot} and I_{d-c} after the on fluxes of differing strengths $\sqrt{100}$ all neutron flux N as V_{tot} . For the form of a short circuit V_{tot} and V_{d-c} and V_{d-c} and V_{d-c} V_{tot} and V_{d-c} and V_{d-c} V_{tot} and V_{d-c} and V_{d-c} V_{tot} and V_{d-c} and V_{d-c} V_{d-c} and V_{d-c}	
even after irradiation with lowineutron flux 1 table.	tes (3.10 ¹⁵ cm ⁻²). There is	
SUBMITTED: July 16, 1962		
Card 2/2		
	F Antonino, and a strain of the second	

S. C. 23

•••••	ACCESSION NR: AP4014675 S/0108/64/019/001/0054/0056	
•	AUTHOR: Nosov, Yu. R.	
1	TITLE: Effect of the charge capacitance of a p-n junction upon the pulse operation of a semiconductor diode	1 1
	COURCE: Radiotekhnika, v. 19, no. 1, 1964, 54-56	
	TOPIC TAGS: semiconductor, semiconductor diode, semiconductor diode i capacitance, semiconductor diode pulse operation, semiconductor diode transient	١.
	response	
	AbSilition of the second structure of its pan junction - semiconductor diode with a graded structure of its pan junction - substituting a constant equivalent capacitance for the variable p-n-junction - capacitance are determined; the equivalent capacitance characterizes (with an capacitance are determined; the equivalent capacitance capacitance and its stored error of 5% or less) both the rate of charging the diode capacitance and its stored	
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ACCESSION NR: AP401467	5	1		
charge. A formula for this mended that the nominal dio 5 v (pulse height is assumed 5 formulas.	de capacitance be rated :	t a reverse-biss	voltage of '	
ASSOCIATION: none	:	e 1 1	8	-
SUBMITTED: 14Jul62	DATE ACQ: 07Feb64	ENCL: 0	0	
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MONAKHOVA, G.N., nauchnyy sotrudnik; ROMASHEV, M.P., nauchnyy sotrudnik; NOSOVA, A.S., nauchnyy sotrudnik; SHISHIGINA, I.A., nauchnyy sotrudnik

Experience in the operation of OM-S spinning machinery in the New Combing Factory of the V.I. Lenin Cotton Mills in Glukhovo. Tekst. prom. 24 no.2:29-32 F '64. (MIRA 17:3)

1. TSentral'nyy nauchno-issledovatel'skiy institut khlopshatokumazhnoy promyshlennosti (for Monakhova, Romashev). 2. Vassoyuznyy nauchno-issledovatel'skiy institut legkogo i tekstil'nogo mashinostroyeniya (VNILLTekmash) (for Nosova, Shishigina).

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- E

PORTUGALOV, V.V.; GAEVSKAYA, M.S. [Gayewakaya, M.S.] GERSHTEIN, L.M. [Gershteyn, L.M.]; NOSOVA, E.A.

This is a set of the

A REAL PROPERTY OF THE ADDRESS OF

Changes in the nerve cell proteins in dogs during resuscitation from the state of clinical death. Physiol. Bohemoslov. 14 no.3:271-275 ¹65.

1. Institute of Brain, USSR Academy of Medical Sciences, and Laboratory of Experimental Physiology of Resuscitation, USSR Academy of Medical Sciences, Moscow.

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GUTNER, I.I.; HOSOVA, G.D.

CITATION CONTRACTOR

Specific granulation in the nerve cells of the human brain.Doklady Akad.nauk SSSR 77 no.1:105-107 1 Kar 51. (CLAL 20:6)

1. Presented by Academician K.I.Skryabin 2 January 1951.



HUSOVA, G.D.

III. I FEMILIAN CON DURING BURGER INCOMENTS INCOMPANY

"Changes Due to Age and Occurring in a Special Fuch- sinophilic Granularity of the Merve Cells of the Human Brain," I. I. Gutner, G. D. Nosova, Yaroslavl' State Med Inst "Dok Ak Mauk SSSR" Vol LXXXV, No 1, pp 195-197 Found that the granularity in question is absent in young children, slowly increases (reaching a max at the sge of 18-30 yrs), and begins to drop off at an age of about 50 yrs. Presented by Academician K. I. Skryabin 6 May 52.	USSR/Biology - Histology	Jul 52
Found that the granularity in question is absent in young children, slowly increases (reaching a max at the age of 18-30 yrs), and begins to drop off at an age of about 50 yrs. Presented by Academician K. I. Skryabin 6 May 52.	sinophilic Granularity of the Merve Brain," I. I. Gutner, G. D. Nosova,	Cells of the Human
young children, slowly increases (reaching a max at the age of 18-30 yrs), and begins to drop off at an age of about 50 yrs. Presented by Academician K. I. Skryabin 6 May 52.	"Dok Ak Mauk SSSR" Vol LXXXV, No 1,	pp 195-197
	young children, slowly increases (re the age of 18-30 yrs), and begins to age of about 50 yrs. Presented by A	aching a max at drop off at an
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SOV/70-3-1-4/26 A More Accurate Determination of Atomic Co-ordinates of the Metastable w-phase in Ti-Cr crystal belongs to trigonal subsyngony (space group $D_{5d}^3 - P_{5ml}^3$). If, however, u = 1/2 the space group is $D_{6h}^1 - P_{6mm}^2$. In order to resolve this discrepancy, the symmetry of the ω -phase and the atomic co-ordinates were re-determined using the X-ray camera described by Bagaryatskiy and Umanskiy (Ref 5). Hard molybdenum radiation was employed. The structure of the metastable w-phase in an annealed titanium-5% chromium alloy which was found in Ref 1 has been confirmed again. The space group is $D_{5d}^3 - P_5^3 = 1$, $a_{hex} = 4.60_{7\pm5} kX$, $c_{hex} = 2.82_{1\pm3} kX$. The position of the atoms is now found to be as follows 3(Ti, Cr) - 000, $\pm(1/3 2/3 u)$ where $u = 0.480 \pm 0.003$. Almost complete transformation of the β -crystal into the ω -phase on annealing was established in accordance with the following law: Card2/3

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CIA-RDP86-00513R0011373

SOV/70-3-1-4/26 A More Accurate Determination of Atomic Co-ordinates of the Metastable ω-phase in Ti-Cr (the amount of the residual β-phase is not more than 5-10%). There are 6 figures, 4 tables and 11 references, 7 of which are Soviet and 4 English. ASSOCIATION: Institut metallovedeniya i fiziki metallov TeNIIChM (Institute of Metallography and Physics of Metals TeNIIChM) SUBMITTED: January 2, 1957 Card 3/3

·• ′	78-3-3 -40/47
AUTHORS:	Bagaryatskiy, Yu. A., Nosova, G. I., Tagunova, T. V.
TITLE :	Investigations of the Phase Diagrams of the Alloys Titanium- -Chromium, Titanium-Tungsten and Titanium-Chromium-Tungsten, Produced by the Method of Powder-Metallurgy (Izucheniye dia- gramm sostoyaniya splavov titan-khrom, titan-vol'fram i titan-khrom-vol'fram, izgotovlennykh metodom poroshkovoy metallurgii)
PERIODICAL:	Zhurnal Neogranicheskoy Khimii, 1958,Vol.3, Nr 3,pp.777-784 (USSR)
ABSTRACT	The metallic-ceramic alloys titanium-chromium, titanium- tungsten and titanium-chromium-tungsten were produced by the calcium-hydride method. After melting the alloys were tempered at 950 - 1000°C. The produced alloys were investi- gated by radiographic and microstructural methods. In the system titanium-chromium it was found that at 670°C and 15.5 \leq chromium an euteotic transformation of $\beta + \alpha + \text{TiCr}_2$ occurs. In the diagram of titanium-tungsten with more than 20 \leq tungsten the phases $\alpha + \beta + \delta$ were not observed.
Card 1/3	At a temperature of 725°C an eutectic decomposition of the

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Titanium -Tun	78-3.3-40/47 s of the Phase Diagrams of the Alloys Titanium-Chromium, gaten and Titanium-Chromium-Tungsten, Produced by the Kethod
of Powder-Ket	Llurgy
	β -phase occurs. The eutectoid concentration lies at 28 % tungsten. The products which occur in the eutectoid decompo- sition are solid solutions of tungsten in α -titanium (α -phase and titanium in tungsten (β -phase). In the ternary diagram titanium-ohromium-tungsten stable solid solutions occur at 1000°C in all investigated domains. In alloys with small quantities of chromium and tungsten a transformation of β to α' occurs after hardening at 1000°C. On the basis of the investigations it was found that the phase diagram of the system titanium-chromium-tungsten belongs to domains rich in titanium of the type of the eutectic phase diagram. The triple eutectoid $\alpha + \sigma +$ TiCr ₂ forms in the domain of a comparatively low temperature (500°C). There are 12 figures, i table, and 6 references, 3 of which are Soviet.
ASSOCIATION:	Institut metallovedeniya i fiziki metallov Tsentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii (Institute for Metallography and Physics of Metals, Central Scientific Research Institute for Ferrous Ectallurgy)

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SOV/137-58-7-15649 Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 247 (USSR) Bagaryatiskiy, Yu. A., Tagunova, T.V., Nosova, G.J. AUTHORS: Metastable Phases in Alloys of Titanium with Transition Elements (Metastabil'nyye fazy v splavakh titana s perekhodnymi TITLE: elementami) PERIODICAL: Sb. tr. In-t metalloved. i fiz. metallov Tsentr. n. -i. in-ta chernoy metallurgii, 1958, Vol 5, pp 210-234 It is shown that in alloys of Ti with transition metals (Cr, Mn, Fe, Co, V, Mo, and W) the existence of several meta-ABSTRACT: stable phases (MP) is possible at room temperature. The (MP) a' differs from the stable phase (SP) a only by the supersaturation with the second element; it forms from the high temperature β phase by the martensite process by rapid cooling. The β phase can also exist in the metastable condition with the concentration of the second element higher than a certain critical one (but lower than that of the equilibrium in the Ti-V and Ti-Mo alloys). Under these conditions it acquires certain anomalous properties (for example a negative temperature coefficient for the resistance). Also, MP's Card 1/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 SOV/137-58-7-15707 Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 257 (USSR) Nosova, G.I., Rozenberg, V.M. AUTHORS: Study of the Effect of Structural Modification Related to Recrystallization on Creep Characteristics (Izucheniye vliyaniya izmeneniya TITLE: struktury, svyazannogo s rekristallizatsiyey, na polzuchest') Sb. tr. In-t metalloved. i fiz. metallov Tsentr. n.-i. in-ta chernoy metallurgii, 1958, Vol 5, pp 514-521 PERIODICAL: Results of the study of the effect of structural modification produced by a preliminary deformation equal to 90% on the ABSTRACT: creep (C) in bending at 560-700°C are described. The investigation was conducted on solid solutions of Fe-Ni-Cr-Co in deformed and annealed states with a variable content of Co from 0 to 20 weight %. In addition to measurement of the rate of C, a study of the kinetics of recovery was carried out (by the variation in the width of X-ray lines) and also the kinetics of recrystallization. It is determined that at relatively low temperatures ($\leq 600^{\circ}$) the structure is the main factor determining the behavior of solid solutions during slow plastic Card 1/2

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SOV/137-58-7-15707 Study of the Effect of Structural Modification (cont.) deformation. At relatively high temperatures, at which a structure affording a high degree of strength cannot exist, the chemical composition of the solid solution becomes the main factor that determines the strength of the interatomic bonds in the crystalline lattice. Meanwhile, the conservation of a structure affording a high degree of strength at elevated temperatures also depends on the strength of the interatomic bonds. The rate of C in specimens hardened by cold deformation and without preliminary stabilization is sharply increased in the range of temperatures of crystallization. Also, the area with a steady rate of C is displaced towards longer periods of time. It is indicated that during the simultaneous action of temperature and stresses a weakening of previously strained specimens occurs more extensively than under the action of temperature alone. Bibliography: 6 references. 1. Metals--Mechanical properties 2. Metals--Structural analysis L. G. 3. X-ray analysis--Applications Card 2/2

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AUTHORS:	Noso	v a, G. 1	I. and R	ozenberg	, V. M.	S0 V/126-	·6-2-19/34	
TITLE :	Stud the	ý of the Cold Sta	Inc lue ate on C	nce of Pr reep (Izu	reliminar Icheniye eformatsi:	y Deform vliyaniy:	ation in a	
PERIODICAL	L: Fi pp 3	zika Met 21-325 (allov i (USSR)	Metallo	wedeniye,	1958, V	ol 6, Nr 2,	
ABSTRACT:	infl resu elev on s	uence of lt of pr ated ter olid sol	f change relimina nperatur lutions	s in the ry deformes. The of iron-1	structure mation on experime: mickel-ch:	e obtaind the create nts were romium-ca	tudying the ed as a ep at effected obalt with ompositions:	
	No.	C	Mn	Ní	Cr	Co	Fe	
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Card 1/3	hend	ing test	a Res	ults obt	determin ained in a sing qual	such tes	ts are fully	
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SOV/126-6-2-19, 34 Study of the Influence of Preliminary Deformation in the Cold State on Creep properties of the material. The thus obtained data were considered only as relative values and no conclusions were made on the absolute magnitudes of the high temperature strength. The solid solutions were investigated in the deformed and in the annealed states; the degree of preliminary deformation amounted to 90%, In addition to measuring the creep speed, the kinetics of relaxation (widening of the X-ray lines) and the kinetics of recrystallisation of these alloys were studied and the regults of the creep tests for the temperatures 560 to 700°C are entered in Table 2, p 322. The result which are graphed and tabulated, lead to the following The results. conclusions: 1. At relatively low temperatures (below 600°C) the basic factor determining the behaviour of Fe-Ni-Cr solid solutions during slow plastic deformation is the structure. At relatively high temperatures at which the structure which would ensure a high strength cannot be maintained the basic factor will be the chemical composition of the Card 2/3 solid solution, which determines the strength of the

Study of the Influence of Preliminary Deformation in the Cold SOV/126-6-2-19/34 inter-atomic bonds in the crystal lattice. is necessary to take into consideration that conservation Thereby, it of a structure which ensures a high strength at elevated temperatures also depends on the strength of the interatomic bonds. The creep speed of specimens hardened by deformation in the cold state and not preliminarily stabilised increases sharply in the temperature range where recrystallisation occurs. Thereby, the stage with a steady state creep speed shifts towards longer time durations. Under the simultaneous effects of temperature and stresses, softening of preliminarily deformed specimens is more intensive than solely as a result of elevated temperatures. There are 5 figures, 4 tables and 6 references, 3 of which are Soviet, 3 English. ASSOCIATION: TSNIIchermet SUBMITTED: December 17, 1956 Card 3/3 1. Alloys--Deformation 2. Alloys--Creep 3. Alloys--Heat treatment 4. Alloys--Test results

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AUTHORS:	Bagaryatskiy, Yu. A., Nosova, G. I., Tagunova, T. V.
TITLE :	The Laws of the Formation of Metastable Phases in Titanium Alloys (Zakonomernosti obrazovaniya metastabil'nykh faz v splavakh na osnove titana)
PERIODICAL:	Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 4, pp 593-596 (USSR)
ABSTRACT :	In previous papers (Refs 1, 2), the authors investigated the alloys Ti-Cr, Ti-W, Ti-Mn in which the metastable phases a^{t} , a^{m} , ω , and β are formed by calcination of the high-tem- perature β -phase. This paper investigates a wider complex of alloy systems: The authors investigated (after hardening and tempering) alloys of titanium with transition elements of the 4 th , 5 th , and 6 th periods of the periodical system of the elements: vanadium, niobium, tantalum, molybdenum, tung sten, and rhenium. These alloys were produced in a metal- locaramic manner on the basis of titanium. The phase compo- sition of all the investigated alloys were found by radio- graphy. The metastable phases a" and ω^{m} (which do not occur
Card 1/3	in the equilibrium diagrams of state) are formed (by harden-

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SOV/20-122-4-14/57 The Laws of the Formation of Metastable Phases in Titanium Alloys

ing) in all the investigated systems at defined concentrations of the second element. The minimum hardness of the alloys corresponds to the presence of an a" phase in the alloys. The sharp maximum of hardness, however, corresponds to the presence of the ω -phase. A diagram shows the laws of the dependence of the rhombic cell of the $\alpha^{\prime\prime}$ -phase on the composition for the alloys Ti-Mo and Ti-Mb. The ω -phase (together with the remanent β -phase) is sufficiently well visible (after hardening) in the radiograms of the following alloys: with 14 % V, with 24 % W, with 10 % Mo, and somewhat less distinctly - in the radiograms of the hardened alloys with 28 % Hb and 14 % Re. An other diagram gives the concentrations at which the $\alpha"-{\rm phase}$ and the $\,\omega\,-{\rm phase}$ occur in the investigated titanium alloys during hardening. In all the investigated systems, a tempering of the alloys in which the β -phase is conserved after hardening causes a formation of an ω -phase in them by diffusion. The total scheme of the decomposition of the β -phase is shown in a figure. The tempering of the alloys of the α "-phase structure was investigated in detail only for the alloys Ti-W, Ti-Mo, and Ti-Mb. This decomposition satisfies the scheme $\alpha^{*} \rightarrow \alpha + \beta$. In all the investigated cases, considerable increase of the hardness of alloys was observed

Card 2/3

	in the initial stage of the decomposition of the a"-phase. There are 4 figures, 1 table, and 4 references, 5 of which are Soviet.
ASSOCIATION:	Institut metallovedeniya i fiziki metallov Tsentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii (Institute of Metallography and Metal Physics of the Central Scientific Research Institute of Ferrous Metallurgy)
PRESENTED:	May 24, 1950, by G. V. Kurdyumov, Academician
SUBMITTED:	May 23, 1958
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NOSOVA, G. I., TAGUNOVA, T. V., BOGARYATEKIY, Yu. A.

". On the Nature of Omega-Phase in Quenched Titanium Alloys."

Central Scientific Research Inst. for Ferrous Metallurgy. Redio Street, 23, Moscow, USSR.

paper submitted for 5th Gen. Assembly, Sumposium on Lattice Defects, Intl. Union of Crystallography, Cambridge U.K. Aug 1960.



s/137/62/000/012/021/085 A006/A101 Bagaryatskiy, Yu. A., Nosova, G. I., Tagunova, T. V. AUTHORS : TITLE: On the nature of the ω -phase in quenched titanium alloys PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 32, abstract 121204 ("Sb. tr. In-t metalloved. i fiz. metallov Tsentr. n.-i. in-ta chernoy metallurgii", 1962, v. 7, 307 - 314) TEXT: This is a reviewing report submitted to the V. International Congress of Crystallographs (Cambridge, England, August 1960). On the basis of analyzing the results of a great number of studies, the conclusion is drawn that the ω -phase in Ti-alloys should be considered as a martensite phase of a special kind. The characteristic feature in the formation of martensite phases of this kind is the absence of a relief on the section surface. There are 30 references. P. Novik [Abstracter's note: Complete translation] Card 1/1
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5/126/62/013/003/013/023 E021/E180 18.1785 Bagaryatskiy, Yu.A., and Nosova, G.I. 10 AUTHORS : The $\beta \longrightarrow \omega$ transformation in titanium alloys on quenching - a martensitic transformation of a TITLE: special kind PERIODICAL: Fizika metallov i metallovedeniye, v.13, no.3, 1962, 11 415-425 The present investigation was carried out on Ti-Cr alloys containing 5-14% Cr. In alloys with 5-8% Cr the u-phase was formed by quenching from the β -phase. In alloys richer in Cr, it could be formed by super-cooling, for example, to -186 °C. 2 Samples containing 9-11.5% Cr were also compressed to 10, 20 and 50% deformation. No change in phase composition was noted as a result of this deformation. Thus, with a sufficiently high concentration of chromium, the formation of ω -phase would take place only by diffusion of the alloying element. Experiments with alloys containing 5, 6 and 8% Cr were carried out using high rates of cooling (8000-11000 0/sec) on thin-walled Card 1/2 1.42 1.4 .4

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	curves), the dependence of the stress-strain relations. The from the point of view of the decay and the changes occurry perimental critical cleavage	e differences between t e differences in the de ing in the lattice para	he different all gree of stratific meters. Commari	oys are explained cation during	a
•	existing theories shows that Mott and F. R. N. Nabarro (P) therefore that the critical of stress produced by the atoms	best agreement is obta roc. Phys. Soc. v. 52, 6 cleavage stress is dete of the alloving element	ined with the the 86, 1940). It is ruined by the ave t. This report a	BORY OF N. F. S concluded	
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L 44311-66 EWT (m)/EWP (w)/I/EWP ACC NR: AP6019832 (/	(t)/ETIJD(c)JD/JH V) SOURCE CODE: UR/0370/66/000/001/0126/0135
AUTHOR: Bagaryatskiy, Yu. A. (I	Deceased) (Moscow); Nosova, G. I. (Moscow); Travina, N.T.
(Moscow) ORG: none	
	₹ 3
	of Al-Mg and Al-Mg-Zn alloys on aging and their effect on
the mechanical properties of the all	loyar(12 / 2./
SOURCE: AN SSSR. Izvestiya. Me	tally, no. 1, 1966, 126-135
TOPIC TAGS: aluminum base alloy tempering	y, magnesium, zinc, phase composition, metal aging,
ABSTRACT: Differences in the ato	omic dimensions of alloy components may markedly in-
fluence the mechanism of phase tra	insformations in alloys and particularly the decomposition
of supersaturated solid solutions.	For this very reason, it is of special interest to study the ys, whose components differ greatly in atomic radii, and in
which tempering at 50-400°C may 1	lead to the decomposition of the supersaturated α -solid
solution with the formation of the e	quilibrium phases α and β (Al ₂ Mg ₂) whose crystalline
structure has been variously define	ed as hexagonal and complex-cubic. Regarding Al-Mg alloys
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A CALLER AND A CALL

L 44311-66

ACC NR: AP6019832

there exist conflicting opinions on the structure of phases segregating in these alloys during their tempering. Thus some investigators believe that the metastable phase β ' is the first to form, while others conclude that the equilibrium phase β with a more or less distorted structure segregates already in the early stages of tempering. To clarify this question, the alloy of A1 + 9.4% Mg was radiographically examined following its quenching from 440°C and tempering at 150, 218, and 270°C. Findings: the decomposition of the solid solution during tempering at 150°C occurs much more slowly than at 218 and 270°C but the phase segregating in 5 the early stages of tempering at 150°C is the same β -phase as that segregating at higher temperatures. As for the Al-Mg-Zn ternary alloys, by contrast with the Al-Mg binary alloys, they are capable of natural aging. In this connection the authors investigated the effect of different atomic ratios of Mg to Zn (1:1 and 1:2) on the nature of decomposition of the solid solution following both natural and artificial aging¹ thus establishing that the sequence of structural changes during the aging of the Mg-rich Al-Mg-Zn ternary alloys (Al + 4 wt. % Mg + 5 wt. % Zn) is the same as in Mg-poor alloys of this kind (Al + 2 wt. % Mg + 5 wt. % Zn), but in the Mg-rich alloys these processes occur much more rapidly. In the Al-Mg alloys hardness, ultimate strength and yield point begin to increase during the initial stage of tempering and go through maxima -- one very early during tempering (within the first 3-10 min) and the other, actwo companying the segregation of substantial amounts of the β -phase. In the Al-Mg-Zn alloys these

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NOSOVA, I.A.

ice androidh Martinean

Feeding habits of some planktonovorous fishes (the smelt Osmerus eperlanus, the bream Abramis ballerus, the whitefish Coregonus albula) in Rybinsk Reservoir. Trudy Gidrobiol. ob-va 12:214-234 '62. (MIRA 15:12)

1. Kafedra zoologii bespozvonochnykh Moskovskogo gosudarstvennogo universiteta.

(Rybinsk Reservoir-Fishes-Food)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0011373

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A T P	(4) UTHORS: ITLE: ERIODICAL:	Rakov, A. A., Veselovskiy, V.I., Nosova, K.I., SOV/76-32-12-8/32 Kasatkin, E. V., Borisova, T. I. The Mechanism of the Joint Electrochemical Formation of Ozoe, Persulfuric Acid and Oxygen on the Platinum Electrode (O mekhanizme sovmestnogo elektrokhimicheskogo obrazovaniya ozona, nadsernoy kisloty i kisloroda na platinovom elektrode) Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 12,
Р		Persulfuric Acid and Oxygen on the Platinum Electrode (O mekhanizme sovmestnogo elektrokhimicheskogo obrazovaniya ozona, nadsernoy kisloty i kisloroda na platinovom elektrode)
-	ERIODICAL:	Zhurnel fizicheskov khimii, 1958, Vol 32, Nr 12,
		pp 2702 - 2710 (USSR)
A	BSTRACT :	The electrolysis is carried out in lOn sulfuric acid with a cylindrical platinum electrode refrigerated by methyl alcohol. Analyses of H_2O_2 , H_2SO_5 , $H_2S_2O_8$ and ozone and measurements of
		the general acid concentration were carried out in brief
		intervals. Two stages were observed (at -50° C and 0,5 A/cm ²). In the first stage oxygen was formed at a potential of 1,0 to 1,8 V, while in the second stage the potential rose to 3,0 V resulting in a high persulfuric acid yield and a low ozone yield. The transition took place within 1 to 2 minutes. By
C	ard 1/2	means of a rapidly revolving platinum electrode in the

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The Mechanism of the Joint Electrochemical Formation of 50V/76-32-12-8/32 Ozone, Persulfuric Acid and Oxygen on the Platinum Electrode

> Dewar flask which was filled with a freezing mixture of carbon-dioxide snow and methyl-alcohol, polarization curves were plotted at various temperatures in 10n sulfuric acid. Also in this case the jump in potential was noted, the curves differing according to whether they were plotted beginning at a low amperage and ending at a high one, or vice-versa. All showed a hysteresis loop. At a temperature of -70° C a third stage occurred in which ozone is produced abundantly at a potential of 5.5 to 7.0 V. These jumps in potential and the chemical reactions due to them are explained by the changing surface finish of the electrode and the influence of intermediate platinum compounds. There are 8 figures and 19 references, 7 of which are Soviet.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova Moskva (Physico-Chemical Institute imeni L. Ya. Karpov, Moscow)

SUBMITTED: July 10, 1957 Card 2/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

HALL SPREATS

CIA-RDP86-00513R001137

1 XOSOVA, K. I. COTFINGE: The book dontains 127 of the 136 reports presented at the Fourth Conference on Electrochemistry sponsored by the Jopart-est of Chemical Sciences and the Institute of Physical Chemistry, sent of Chemical Sciences and the Institute of Physical Chemistry addemy of Stietrochemical USEN. The collection pertains to different branches of Stietrochemical Institutes of Ouble 1987 thorizes and branches of Stietrochemical states and industrial steet-rolys. Abridge discussions are given at the end of each dist-rolysis. Abridge discussions are given at the short been published in periodical literature. Bo personalities are sentioned. Protences are given at the end of most of the articles. 9-305-9 645 Discussion (M. A. Pedotov, M.T. Kaganovich, Te. M. Kuchinskiy, _{Üt}é Q.M. Kokhanov, and contributing authored on Elect-5351, 10 1.0 546 3 5 Yesin, Galtorial Doardi A.R. Fruakin (Rap. Ed.) Academician. O.A. Yasir Frofessor: J.I. Zhdanov (Rap. Jecretary). D.R. Kabanov. Fro-casor. J.I. Zhdanov (Rap. Jecretary). D.R. Kabanov. Fro-ran. N. Kolotyrkin. Doctor of Chesical Sciences) V.V. Losv. J. D. Ya. N. Kolotyrkin. Doctor of Chesical Sciences) V.V. Josv. J. Lukovtav. Frofessory. Z.A. Solovysen, V.W. Stander. Frofessory and O.M. Jiotanovich: Ed. of Publishing Mouses N.O. Vegorovi Fech. Ed. I T.A. Fruskova. Trudy...; [abornik] (Tranaactions of the Fourth Conference on Sign rechamistry: Collection of Articles) Masses. Itde-od MiSL, 1999. B68 p. Errits ally inserted. 2,500 copies printed Sonscring Agency: Akademiya nauk 553A. Otdeleniye khimitosestikh mauk. Institute issue S. Ordinonkidie). Influence of the Rature of an Electrolitic Cation on the Anode Froceas During the Instructions of Alkaline and Alkaline-Earth-Matal Chloride Solutions WithOSE: This book is intended for chestcal and electrical engi-mers, physicists, metallurgists and researchers interested in various aspects of electrocomplatry. Latitude Control of Latitude (Depropercose Institute of Chastal Technology Instifie, Distributy). Pointiation of Dramite Electrodes During the Anodic Separation of Chashise Electrodes During the Anodic Separation of Chastalise 11.11. G. G., and Y.L. Skripchenko (Howocherwssk Polytechnic Astevy_AtAt, E. I. Kiseory, and E.V. Yasatkin (Fhysicochemical Institute TERRITI, 13. Marpov). Macantas of the Simul-taneous Electrochemical Portation of Persuifuric Acid taneous Electrochemical Portation of Persuifuric Acid and Oxygen at a Flatinum Anode in Sulfuric Acid Solutions Volkoy-2.1. Z. L. Elita, Ye. E. Suscrova and H. Y. Chert. Maiatas. Influence of Surface-Relive Subtances on the Rate of Decomposition of Sodium Amaigums - Bwyanova, R. Te., and G.A. Tagganov (Institute of Chemistry. Academy of Sciencel, USSK), Tydrogen Overvoltage at Electrodes Mith Nomogeneous Surface 30V/2216 PHASE I BOOK EXPLOITATION SCV/2216 Gqueshchaniye po elektrokhimii. 4th. Hoscow, 1996. Trensactions of the Fourth Conference (Cont.) i AVAILADLE: Library of Congress IN /LE PURD Card 34/34 € 5(4)

APPROVED FOR RELEASE: Tuesday, August 01, 2000

(4) UTHORS:	SOV/76-33-2-18/45 Nosova, K. I., Rakov, A. A., Veselovskiy, V. I.
PITLE:	A Study of the Electrochemical Behavior of Ozone on the Platinum Electrode by the Method of Cathodic Polarography (Izu- cheniye elektrokhimicheskogo povedeniya ozona na platinovom elektrode metodom katodnoy polyarografii)
PERIODICAL:	Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2, pp 349 - 356 (USSR)
ABSTRACT:	Experimental material concerning the cathodic reduction of ozone on the rotating platinum electrode in sulfuric acid solutions at 25, 030, -50 and -70° C was the basis for thorough investigations on the mechanism of the electrode reaction in the region of high anode potentials (analogous to the experiments in reference 3). The apparatus used was previously described (Ref 4). The rate of rotation of the platinum electrode was about 3000 rpm in all experiments. The stationary potential was determined as a function of the temperature at constant ozone concentration in 10 nH ₂ SO ₄ (Table 1) and as a function of the ozone concentration at 25°C (Table 2). The polarogram curves (Fig 1) which were obtained

A Study of the Electrochemical Behavior of Ozone on the SOV/76-33-2-18/45 Platinum Electrode by the Method of Cathodic Polarography

> in 10 n H₂SO₄ saturated with 20% ozone and at 25°C indicate a value of $\varphi_{1/2}$ = 1.30 volt for the ozone reduction, while the reverse curve shows a half-wave of $\varphi_{1/2}$ =1.55 volt for the ozone reduction. The size of the limiting current is directly proportional to the ozone concentration in the solution, so that the method of cathode polarography with the rotating Pt electrode can be used for a quantitative determination of ozone in solutions and in the gaseous phase. At lower temperatures (-30 and -70°) two polarogram waves appear for the ozone reduction (Figs 3,4), which is explained in terms of a two-stage reduction reaction (0_3 +e⁻ $\longrightarrow 0_3^{-}$; O_3^{-} + H⁺ $\longrightarrow O_2$ + OH). It is assumed, on the basis of the formation of surface oxygen compounds on platinum, that the following reaction mechanism takes place: Pt0+2 OH \longrightarrow Pt0[O] ads⁺H₂O; Pt0[O] ads⁺2H⁺+2 e⁻ \longrightarrow Pt0+H₂O.

Card 2/3



"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 VLASOVA, E.N.; NOSOVA, L.A.; KOZLOV, D.V.; FLATONOV, V.F. Use of polyamides in the friction parts of motor vehicles. Plast. massy no.1:38-46 '61. (Motor vehicles) (Folyamides) (Bearings (Machinery)) 4 ١ -n

AUTHORS :
TITLE:
PERIODICAL:
TEXT: chemical nation for machine p tion. Pract polyamides us AK7 (AK7), ((P-548) and (

Some properties of polyamides as machine material

S/122/60/000/004/006/014 A161/A130

The recommendations concern service temperatures, stress relief by boiling water / or steam, permissible pressures, etc., spraying for coatings on metal. It is mentioned in conclusion that many Soviet plants use capron waste in the form of fiber, hosiery, gates and risers. It is only natural that plants supplying such waste do not standardize it, and the plants using it reprocess the waste by primitive means in autoclaves using nitrogen containing oxygen and sometimes in high quantities; molten material is kept molten for too long, injected into molds too slowly. Unstable mechanical properties and uneven monomer content are the result. Besides, in many investigations (mostly of capron) the test specimens are prepared from waste or secondary capron, and this leads to wrong conclusions and recommendations. The author stresses the conomic importance of proper polyamide use. There are 10 figures, 4 tables and 7 references: 1 Soviet-bloc and 6 non-Soviet bloc. The references to the English-language publications read as follows: "Modern Plastics", no. 1, 1955, v. 33, 158-164; "Machine Design", no. 5, 1956, v. 28, 95-99; "Machine Design", no. 4, 1956, v. 28, 95-105; "Journal SPE", no. 2, 1957, v. 15.

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AUTHORS:	Yermolina, A.V., Igonin, L.A., Nosova, L.A., Farberova, I.I., and Vlasova, K.N.	
TITLE:	Relationship between mechanical properties of crystalline polymers and their supermolecular structures	
PERIODICAL:	Doklady Akademii nauk SSSR, v. 138, no. 3, 1961, 614 - 615	
wear. They a ments ("degree tures to the m were cast from	lyamide resin 68 (polyhexamethylene sebacic azide), from which alide bearings are produced and which has a high resistance to tempt to clarify the importance of the local order of the seg- of crystallinity") and of the secondary supermolecular struc- acroscopic properties of polymers. $4 \times 6 \times 55$ mm samples the resin under pressure by means of the JM-3 (LM-3) casting bjected to heat treatment in inert media (silicon oils) at the restruction of times. The "degree of	

ile en de le company de la 24043 S/020/61/138/003/015/017 Relationship between ... B103/B208 were recorded on the basis of the dispersion angles of X-rays on the YPC-50- N(URS-50-I) X-ray diffractometer. The spherolite structure of the polyamide was confirmed by a microphotograph of the polished surface of the sample which has previously been etched with tricresol. The metallurgical MMM-8 (MIM-8) microscope with a 1000-fold magnification was used for this purpose. For each series of samples the reciprocal value of wear (resistance to wear) was determined by means of the sieve-type testing machine (of the Grasseli type). The heat treatment was applied at 150 and 190°C for 15 - 30 min for each of these temperatures. The conversion of the initial samples with a hexagonal cell to the triclinic form, as described in publications, was accomplished already after heating for 15 min. Further heat treatment gradually completed the X-ray picture. It was characterized by a marked increase of the interferences (100) and (010), and, accordingly, also of the "degree of crystallinity". The second appearance of the interference of the hexagonal cell between the reflexes (100) and (010) of the triclinic cell on prolonged heating was striking. After 8 hr at 190°C and after 12 hr at 150°C the crystallinity ceased to increase. There were no recognizable structural changes observed during a heat treat-

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Relationship between ...

ment of up to 30 hr. The spherolite structure of the polyamide was found to be more sensitive to a change in the method of the thermal treatment than the "degree of orystallinity". The size of the spherolites markedly increased (from 1 to 5 μ) on short heating, some structures, however, were still larger. After 8 hr heating at 190°C and after 10 hr at 150°C a gradual destruction of spherolite structures set in, and after 30 hr they could not be observed any longer on the surface of the sample. A specific correlation between the "degree of crystallinity" and resistance to wear of the plastics could not be confirmed. It may be seen from these prelimi. nary studies that samples with a uniform size of spherolite structures $(2 - 3\mu)$ have the highest resistance to wear. It is concluded therefrom that homogeneity, size, and fine structure of the supermolecular structures play an important role in the wear of the polyamide. It is therefore of considerable interest to explain the effect of the above-mentioned structures on the mechanical properties, when studying the relationships between these properties and the structure of crystalline polymers. The authors express their gratitude to V. A. Kargin, Academician, for discussion of the results, and S. B. Ratner for his assistance in this work. There are 9 references: 7 Soviet-bloc and 2 non-Soviet-bloc.

Card 3/4

APPROVED FOR RELEASE: Tuesday, August 01, 2000



"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 Ũ NOSOV LIA 1.000 (01.4 1: 3/191/62/000/009/006/012 15.8210 B101/B144 . Farberova, I. I., Ratner, S. B., Lur'ye, Yo. G., Gurman, I. L., Ignatova, T. A., Bosova, L. A. AUTHORS: Effect of some factors of composition and manufacture on the TITLE wear of plastics PERIODICAL: Plasticheskiye massy, no. 9, 1962, 35 - 38 ſb TEXT: The results of wear tests on plastics using enery oloth (EC) and motel gauze (MG) are given. For MG wear tests and tests with smooth steel the equation $v = v_1 P$ holds mainly for the frictional wear while the EC tust characterises the purely abrasive wear. Data of wear (mm"/m.cm2 at 5 kg/cs^2 at 60°C (first figure EC tost, second figure EG test, third figure \sim) for epoxy cospounds with various fillers: 3E-5 (ED-5) regin with dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05, dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05, dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05, dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05, dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with graphite: 70, 0.05; dibutyl phthalate without filler: 48, 1.8, 3.5; with g filled with asbestos, talcum or quarts an initial decrease of wear eith increasing filler content is followed by an increase. The minimum of Card 1/2STATISTICS.

APPROVED FOR RELEASE: Tuesday, August 01, 2000

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001137 県 潮汐城市 3/191/62/000/009/006/012 • B101/B144 Effect of some factors of composition ... woar is explained by the limit of compatibility between filler and polyner. For polyamides, a strong reduction of sear is already achieved with low for polyamides, a strong reduction of sear is already achieved with low filler addition. Data for polyamide 68 (first figure EC test, second B figure L3 twat, $m^3/n \cdot cm^2$): without filler 0.61, 0.0025; with 5% talcum 0.64, 0.0006; with 20% talcum 0.73, 0.0014; with 40% talcum 1.10, 0.010; with 0.5% 205_2 0.91, 0.0003; with 5% 205_2 1.01, 0.0006. The NG test is nuch more penditive than the WG test. The EC test shows the sear in polymers to be a linear function of the product of impact strength and burdness, whereas according to the KG test the wear is a linear function of the product of tunsilo strength and treaking elongation. There are j or the product of tensile strength and treaking erengation. There are y figures and 3 tables. The English-language reference is: AST& Standards on Plastics, ASTM D1242, 56 (1957). Gard 2/2

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AUTHORS: Vlasova, K. N.; Morozov, N. A:; Dobrokhotova, N. K.; Nosova, L. A.; Ivanova, G. P. TITLE: Finely dispersed polyamides and antifriction coatings there- from SOURCE: Plasticheskiye massy*, no. 1, 1964, 14-16 TOPIC TAGS: polyamide, powder, bed coating, antifriction coating, polyamide coated ferrous metal, polyamide coated nonferrous metal, coating property; coating ABSTRACT: Finely dispersed polyamide powders of 100 to 500 microns can be prepared by dissolving the polyamide in caprolactam at 180- 200C, cooling, and adding water to precipitate the polyamide and remove the solvent. The process can be batch or continuous. The polyamide may be applied by gas flame spray coating. Antifriction fillers such as graphite, disulfides or molybdenum may be added during spray coating as long as their particle size is less than that of the polyamide. Pigments may also be added. The coatings on	ACCESSIO	N NR: AF4009629	8/0191/64/000/001/0014/0015	
SOURCE: Plasticheskiye massy*, no. 1, 1964, 14-16 TOPIC TAGS: polyamide, powder, spray coating, fluidised bed coating, antifriction coating, polyamide coated ferrous metal, polyamide coated nonferrous metal, coating property, coating ABSTRACT: Finely dispersed polyamide powders of 100 to 300 microns can be prepared by dissolving the polyamide in caprolactam at 180- 200C, cooling, and adding water to precipitate the polyamide and remove the solvent. The process can be batch or continuous. The polyamide may be applied by gas flame spray coating. Antifriction fillers such as graphite, disulfides or molybdenum may be added	AUTHORS:	Vlasova, K. N.; I Nosova, L. A.; I	MOROZOV. N. A.: Bohmakhatawa w w	
TOPIC TAGS: polyamide, powder, bed coating, antifriction coating, polyamide coated ferrous metal, polyamide coated nonferrous metal, coating property, coating ABSTRACT: Finely dispersed polyamide powders of 100 to 300 microns can be prepared by dissolving the polyamide in caprolactam at 180- 200C, cooling, and adding water to precipitate the polyamide and remove the solvent. The process can be batch or continuous. The polyamide may be applied by gas flame spray coating. Antifriction fillers such as graphite, disulfides or molybdenum may be added	TITLE: F	inely dispersed pe rom	olyamides and antifriction coatings there-	•
TOPIC TAGS: polyamide, powder, bed coating, antifriction coating, polyamide coated ferrous metal, polyamide coated nonferrous metal, coating property, coating ABSTRACT: Finely dispersed polyamide powders of 100 to 300 microns can be prepared by dissolving the polyamide in caprolactam at 180- 200C, cooling, and adding water to precipitate the polyamide and remove the solvent. The process can be batch or continuous. The polyamide may be applied by gas flame spray coating. Antifriction fillers such as graphite, disulfides or molybdenum may be added	SOURCE:	Plasticheskiye man	ssy*, no. 1, 1964, 14-16	
ABSTRACT: Finely dispersed polyamide powders of 100 to 300 microns can be prepared by dissolving the polyamide in caprolactam at 180- 200C, cooling, and adding water to precipitate the polyamide and remove the solvent. The process can be batch or continuous. The polyamide may be applied by gas flame spray coating. Antifriction fillers such as graphite, disulfides or molybdenum may be added	TOPIC TAC	IS: polyamide, powd	der, spray coating, fluidized	
	ABSTRACT: can be pr 200C, coor remove th polyamide fillers a during sp	Finely dispersed repared by dissolv pling, and adding a solvent. The p may be applied b such as graphite, ray costing as lo	i polyamide powders of 100 to 300 micron ving the polyamide in caprolactam at 180- water to precipitate the polyamide and process can be batch or continuous. The by gas flame spray coating. Antifriction disulfides or molybdenum may be added	• •

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•	ACCESSION NR: AP4028550 S/0191/64/000/004/0033/0037
	AUTHOR: Vlasova, K. N.; Rudy*k, M. A.; Nosova, L. A.; Pichugin, A. N.; Ivanova, G. P.
1	TITLE: Antifriction compositions based on filled polyamides
	SOURCE: Plasticheskiye massy*, no. 4, 1964, 33-37
	TOPIC TAGS: antifriction composition, polyamide, filled polyamide, graphite filled polyamide, tale filled polyamide, physical property, mechani- cal property, electrical property
	ABSTRACT: The antifriction and other physical, mechanical and electric pro- perties of filled polyamides were investigated, as well as their application in structural work. The following polyamides were tested: (T=talc, G=graphite,
	Mo=molybdenum disulfide, Ba=barium sulfate, numbers=% filler) Polyamide 68, 68-T20, 68-T40, 68-Mo5, 68-Ba5, Capron, K-T10, K-Mo1.5, K-Ba10, K-G10
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ACCESSION NR: AP4028550 AK-7, AK-7T10, AK-7T20, AK-7T40, AK-G5. Even small amounts of antifriction additives help form fine crystalline structures in polyamides thus improving their antifriction properties. The impact strength is lowered proportionally to the amount of filler, but polyamides have such high impact strength that even cm/cm^2 , which exceeds that of with 40% filler the strength is still 20-30 kg epoxide and phenol-formaldehyde mesine. The antifriction fillers increase the modulus of elasticity of polyamides as evidenced by increased rigidity and decreased deformation under load. Filled polyamides have a smaller residual deformation and elastic lag than the unfilled. The water absorption of polyamides is lowered in proportion to the filler content. The good dielectric properties of polyanides are not decreased by fillers, therefore filled polyamides can be used in the electric industry for reinforced and thin walled articles. Specifically, P-68 and 68-T10 polyamides may be used in the -60 to +100C, 10-1600 hertz ranges. AK-7T20 and 68-T30 show especially good antifriction properties and can replace nonferrous metals, their alloys and other materials, for instance in mechanical fittings in hydro installations. Their coefficient of wear is 20-35% less than that of DSP-B (a phenol-formaldehyde); the increased elasticity of the filled olyamides makes them very desirable replacements for the latter for working 2/3

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cemented to the meta The coefficients of fr DSP-B at 500 kg /line A method was develop metal articles compri- mide granules (low m	e in the construction of runnerswhere al with epoxy ED-5) reduces metal a liction for AK-7 and AK-7T20 are 19 ear cm., and 6 and 20% less at 200 bed for preparing antifriction worki ising coating the cleaned and degree colecular polyamide with a small an	requirements and costs. 9 and 61% less than for 0-2500 kg / runn ing cm. ng surfaces on large ased metal with polya- nount of epoxy resin as binder)
with polyamide surface	r elevated temperature. The work ces may be further increased by the rticles, even of complex confi ides. Orig. atc. has: 6 figu	e use of lubricants. Iguration, may be made
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Description of the tendre and forestationing testation in the Yana-Omolog interfluxe (northern Yakutia), Bet, zhur. 29 no.5: 663-668 My 164. (MIRA 17:8)

> 1. Famirskaya blodogicheskaya stantsiya AN Tadzhikskoy SCR, gorod Murgab.

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NUSUVA, L.M. , GORODINSKTY, C.M., KARUOV, V.L, CHTEDING, M.M.

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"Selection of Firstic Polymer Materials for Use in Equipment for Personal Protection". p. 24

Truny Vsesoyuznoy Konterentsii po Mantsinskoy Asaiclogi. (Voprosy Gigiyeny i Dozimetrii) Kedgiz, 1977, Moscow Russian, uk.

Proceedings of the All-Union Conference on Medical Realology (Hygienic and Dosimetric Problems).





GORODINSKIY, S.M.; PANFILOVA, Z.Ye.; GOL'DENTIAN, D.S.; NOZOVA, L.M.KAINUZHNATA, T.P., red. Decontamination of means of individual shielding and protective coatings] Deanktivizatsiia sredatv individual'noi zashchity i zashchitnykh pokrytii. Mogkva, Atomizdat, 1964. 117 p. (MIRA 17:6)
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ACCESSION NR: A	T4016991	8/3057/63/000/000/	0025/0034	1
AUTHOR: Goradin Rodicnov, I.S.;		oov, V.L.; Nosove, L.H.; Fe	nfilova, Z. Ye.;	
TITLE: The deve shielding agains	lopment of a mas t radioactive su	sticated rubber on a polyvin ubstances	nylchloride base for	0
		a v atomnoy tekhnika (Shiel , Gosstomizdat, 1963, 25-3		
activity, polyvia		3, masticated rubber, nucle mer, radioactive shielding 57-40 rubber		•
present time, po anical and techn shielding in nuc	olyvinylchloride ological propert lear engineering	at, of the industrial polym is, in terms of its inexp ties, the best material to 3. The authors tested many resin bases in terms of th	ensiveness and mech- serve as a base for masticated rubber	, , ,
tion characteris	tic as a functio	on of the type of golyvinyl ance of different component	chloride resin, pro-	i

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the required physico-mechanical and technological properties of the material. (By "sorption-desorption properties" the authors mean the ability of the material to absorb radioactivity and to be washed free of these radioactive substances through the effect of special cleansing solutions; the sorption- desorption characteristic is expressed by the residual activity of the material in percentages of the original contamination). The results of these tests are discussed. The optimal solution of the problem of developing a material to meet the specific operating requirements involved in working with radioactive substances was found in an entirely new principle of composition. This principle consists of the introduction into the composition of specially selected admixtures of hydrophobic substances which separate out on the surface of the masticated rubber in the form of a thin layer. The research conducted along these lines by the authors led to the possibility of developing on the basis of the most accessible polymer - polyvinylchloride - a new type of shielding material, called masticated rubber formula 57-40 and 80. This material is a thermoplastic and its physical and mechanical properties depend to a large degree on the temperature (its tensile strength, for example, changes with increasing temperature) and, for this reason, the formula use must be limited to a temperature interval of from 0 to 50C. The effect of the radiation dosage on the strength

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of the masticated rubber and of other specific characteristics formula 57-40 and 80 masticated different conditions and is pr in radiochemical laboratories and possessed of extremely hig produced in thicknesses of 2 a covering of floors and, produced utilized as a wall covering. brown, orange, blue and white, skiy khimkombinat (Okhtinak Co has: 7 figures.	s of the material. The authors ed rubber has successfully und resently being widely used as a and at atomic power centrals. gh resistance to wear, this shift and 3 mm, is particularly suite red in thicknesses of 0.3, 0.5 The masticated rubber is avai , "L.I. Kuz'mina and L.G. Dan	s point out that ergone tests under a shielding material Easily deactivated elding material; ed to continuous and 0.7 mm, may be lable in colors of illowe of the Okhtin-	
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A	ACCESSION NRI AT4016994 E/3057/63/000/0054/0074
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	UTHOR: Goradinskiy, S. H.; Panfilove, Z. Ye.; Zelenov, A. S.; Sarytchev, V. S.; Vanova, T. G.; Kosova, L. H.
T	ITLE: The design of protective doverings (shieldings) of formule 57-40 metissted ubber for structural elements
S	DURCE: Zeshchituy*ye pokry*tiye v etomnoy tekhnike (Shielding in nucles? ngineering); sbornik statey. Koscow, Gosatomizdat, 1963, 54-74
T	DPIC TAGS: protective shielding, redioective shielding, mesticated rubber, 7-40 rubber, rubber welding, welding RIG, redioectivity, nuclear shielding
61	STRACT: In this detailed and extensive article, the authors describe the use formula 57-40 mesticated rubber for purposes of redicactive shielding. The rticle consists of two main parts: Pert 1 - the shielding of floors, and Part 2 -
	and of applying the rubber, the presention of the flow and stairs. The condi-
	the meeticated rubber for velder the statut the live survey, the preparation
h	the masticated rubber for welding, the actual welding of the exterial with gh-frequency current, the use of various rigs for welding (the SPPE and the PS), a making and application by welding of flanges and orings, high-frequency lap
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h	gh-frequency current, the use of various rise for weiding of the exterial with

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WTHOR: Gorodinskiy, S, M.; Pe Hudrenko, N. A.	anfilova, Z. Ye.; Sp	eirldonov, A. D.;	Nosova, L. M.;		•
ITLE: Investigation of lacque					
OURCE: Zashchitny*ye pokry*ti engineering); sbornik statey.	Lya v atomnoy tekhni Moscow, Gosatomizda	lke (Shielding in at, 1963, 126-136	nuclear		
OPIC TAGS: atomic reactor, re hielding, lacquer shielding, l		tion, nuclear sh	Lelding,		
BSTRACT: Lacquered materials and technical equipment. The s construction materials and tech	advantage of lacquer hnological equipment	red materials for t from redioactiv	the shielding of contamination	•	
s the continuous, jointless continuous present investigation shows been a primarily on their chemical states of the states of th	pating of the surface ed that the desorption is a composition.	ce during any of lve properties of Lacquers with oil	its configuration lacquer coatings s and alkali-oil	5	
should not be used for surfaces to use 1-20-61 enamels on an Subase with lacquer coatings. T	VKh-40 base and com	aercial enamels o	n an SVKh-40	3	· · ·
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AUTHOR: Gorodinskiy, S. M.; Panfilova, Z. Ya.; Gol'dshteyn, D. S.; Nosova, L. M.; Fishevskaya, B. A.

TITLE: A laboratory method for the comparative estimation of the deactivation of materials contaminated by fission product isotopes

SOURCE: Zashchitny*ye pokry*tiya v atomnoy tekhnike (Shielding in nuclear engineering); sbornik statey. Moscow, Gosatomizdat, 1963, 173-182

TOPIC TAGS: radioactive element, nuclear shielding, decontamination, deactivation, fission product, radioactivity, radioactive isotope, radioactive contamination

ABSTRACT: The possibility of removing radioactive contaminants from shieldings and other anti-radiation materials is one of the most important requirements of these shieldings. The deactivation solution consists of a 2% hydrochloric acid solution containing 0.3% of either OP = 7 or OP = 10 soap and 0.4% sodium metaphosphate. The sodium solution reacts with the cations of many radioactive isotopes and forms water-soluble compounds. In addition, the sodium metaphosphate softens the water, improving the washing action of the solution. Card 1/3

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NOSOVA, L.M.

Some species with disjunctive ranges in the flora of the northern (meadow) steppe of the European part of the U.S.S.R. Biul. MOIP Otd. biol. 70 no. 6:116-130 N-D '65 (MIRA 19:1)

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NOSOVA, L.N.; TUMARKIN, S.A.; DITKIN, V.A., prof., otv. red.; ORLOVA, I.L., red.; POFOVA, N.S., tekhn. red.

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[Tables of generalized Airy functions for asymptotic solution of the differential equations $\mathcal{E}(py')'+(q+\mathcal{E}r)y=f$]Tablitsy obobshchennykh funktsii Eiri dlia asimptoticheskogo resheniia differentsial'nykh uravnenii $\mathcal{E}(py')'+(q+\mathcal{E}r)y=f$. Moskva, Vychislitel'nyi tsentr AN SSSR, 1961. 89 p. (MIRA 14:12) (Airy functions) (Differential equations)

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FRANDETSKAYA, YG.A.; NOSOVA, L.P.

Electrodeposition of a zinc-tin alloy from pyrophosphate electrolytes. Izv. vys. ucheb. zav.; tavet. met. 4 no.3:136-139 '61. (MIRA 15:1)

1. Krasnoyarskiy institut tsvotnykh motallov, kafedra elektrokhimii i korrozii.

(Electroforming) (Zinc-tin alloys)

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CITATING CONTRACTOR

NOSOVA, L.S.

Submerged cultivation of Flexner's dynentery bacteria on polysynthetic nutrient media. Mikrobiologiia 29 no.5:690-694 S-0 '60. (MIRA 13:11) 1. Gor'kovskiy nauchno-isaledovatel'skiy institut epidemiologii i gigiyeny.

(SHIGELLA PARADYSENTERIAE) (BACTERIOLOGY-CULTURES AND CULTURE MEDIA)

NOSOVA, L. S., PEROVA, R. S., (USSR) "Metabolic Features in Deep Cultures of Typhoid and Dysentery Bacteria." Report presented at the 5th Int'l. Biochemistry Congress, Moscow, 10-16 Aug 1961.

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NOSOVA, M.A.

Myocardial infarct in rheumatic heart disease. So.vmed. 22 no.1: 124-125 Ja '58. (KIRA 11:4)

1. Iz terapevticheskogo otdeleniya (nauchnyy rukovoditel' - dotsent B.H.Grinberg) Kuybyshevskoy oblastnoy bol'nitsy imeni M.I.Kalinina (glavnyy vrach M.I.Kochemazov) (RHEJMATIC HEART DISEASE, compl.

myocardial infarct (Eus)) (MYOCARDIAL INFARCT, etiol. & pathogen. relation to rheum. heart dis. (Rus))



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HOSOTA, M.M.; BARHAKOVA, T.S.

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Resistance of inlets and outlets of channels in the presence of a passing flow. From.acrodin. no.15:20-37 \$59. (NIRA 13:8)

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SAMOYLOV, Georgiy Pavlovich; SHEKHTMAN, A.M., otv. red.; NO: OVL. M.N., red.

[Simple repair of television receivers; how to locate and replace faulty tubes] Prosteishii remont televizorov; kak nakhodit' i zameniat' neispravnye lampy. Izd.2., dop. Moskva, Sviaz', 1965. 188 p. (Biblioteka "Televizionnyi priem," no.18) (MIRA 18:6)

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