RYABCHIKOV, D.I.; KURILICHIKOVA, G. Ye.

Determination of small amounts of boron in the presence of fluorine and silicon. Zhur. anal. khim. 19 no.12:1495-1497
164 (MIRA 18:1)

1. Institut geokhimii i analiticheskoy khimii imeni V.I. Vernadskogo AN SSSR, Moskva.

KURILOW, V. ANTAL, J.; KURILCUK. V. Convenient method of registration of salivary reflexes. Cesk. fysiol. 6 no.1:99-103 '57. 1. Pyziologicky ustav Lekarskej fakulty UK, Bratislava. (SALIVATION, registration technic (Cz))

KURILEM, D. G. and Variab, J. C.

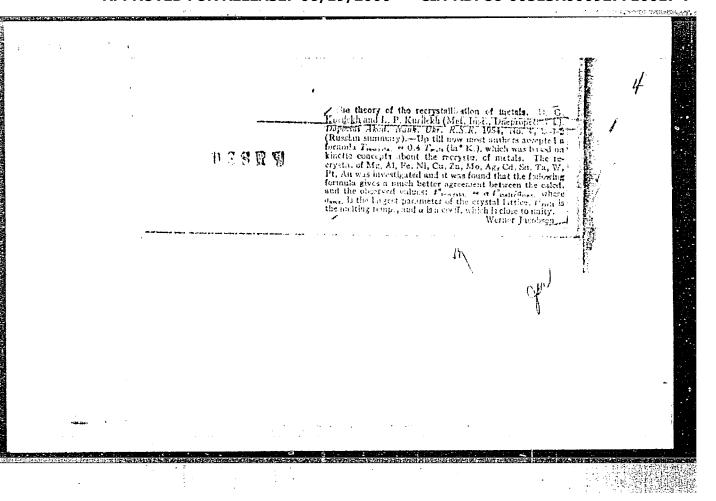
"Processes Occurring in Cold-Strained Fe-Ni Alloys During Annealing Nauch. Zap Dnepropetr. un-ta, 41, 1953, 23-25

Effect of Ni on hardening of binary Fe-Ni alloys was studied depending on Ni content, cold plastic deformation, and the annealing at various temperatures following thereafter. With increasing Ni content in steel the hardness of unstrained alloys rises. The hardness of strained alloys also rises, but work-hardening decreases with rising Ni content. Curves of temperature behavior exhibit two maxima for alpha-phase alloys. (REAFiz, No 9, 1955)

SO: Sum-No 787, 12 Jan 56

"APPROVED FOR RELEASE: 06/19/2000 CIA-R

CIA-RDP86-00513R000927710017-7



KURILEKH, D. G. "Investigation of the Nature of the Toughening of Iron and and Its Solid Solutions." Acad Sci Ukrainian SSR. Inst of Physics. Kiev, 1955. (Dissertation for the Degree of Doctor in Physicomathematical Science).

SO. Knizhnaya letopis'
No 2, 1956

KURILEKH, D.G.

137-58-2-2809

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 87 (USSR)

AUTHORS: Kurilekh, D. G., Psarev, V. I.

The Nature of the Drop in Yield Point in the Finishing of Sheet TITLE:

Steel (O prirode ponizheniya predela tekuchesti pri otdelke

stal'nykh listov)

Nauchn. zap. Dnepropetr. un-ta, 1956, Vol 45, pp 69-71 PERIODICAL:

A study was made of the mechanical properties of annealed and leveled sheet steel, and an attempt was made to determine ABSTRACT: the cause of the drop in the Os value after leveling. Used in the tests were sheets of steel OSKP, annealed at 680-710° for 8 hours. The sheets, 2000-2500 mm in length, were cut in half. From the one half samples were cut to be tensile-tested to destruction at angles to the direction of rolling of 0, 30, 45, 60, and 900; the other half was sent on for leveling, then for mechanical testing. Reduction amounted to 0.85-1.0 percent Tested were 6 sheets, 120 samples; the thickness of the samples was 0.82 mm. Chemical composition and test-result tables are included. The penetration depth of the leveling deformation was studied by X-ray. It was found that the solid Card 1/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R090927710017

The Nature of the Drop in Yield Point (cont.)

background of the line (110) receded from the surface to a depth of up to 0.05-0.07 mm in sheets reduced by 1.0 percent, and to a depth of up to 0.08-0.12 mm in sheets reduced by 1.8 percent. In the leveled sheets the Os value dropped from 24.05-26.7 kg/mm² to 19.35-2075 kg/mm², with a diff rent value for each direction tested. Changes in Gand Swere insignificant. It is assumed that the increase in the surface area of a sheet resulting from a plastic flow of the ferrite grains in the surface layers of the sheet should lead to an elastic deformation of the individual grains not only on the surface but throughout the thickness of the sheet. The effect of leveling on the sheet steel was such that the elastic tensile deformation of the inner ferrite grains was balanced out by the elastic compression deformation of the surface layers. When the samples were tensile-tested, the preexisting elastic deformation of the grains was made evident by its absorption of some of the stress---which was apparent from the drop in the \mathcal{O}_{c} value. D.M.

2. Sheets-Steel-Analysis 1. Sheets---Properties

Card 2/2

SOV/137-59-1-1487

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 197 (USSR)

AUTHOR: Kurilekh, D.G.

TITLE: The Employment of a Thermoelectric Method for the Investigation

of the Physical Properties of Alloys (Primeneniye termoelectriches-

kogo metoda dlya issledovaniya fizicheskikh svoystv splavov)

PERIODICAL: Byul nauchno-tekhn inform Vses nei trubnyy in-t, 1958, Nr

4-5, pp 190-194

ABSTRACT: A description of apparatus and results of an investigation in which the thermal emf of the binary alloys Fe-Cr, Fe-Mn, Fe-Ni, and

Fe-Si coupled with Cu was studied as a function of the concentration of the second element, the temperature differential between the cold and the hot junctions amounting to 50°C. As the Si and Ni content was increased, the thermal emf of the alloys with respect to Cu diminished. At a concentration of 0.9% Si and 2.7% Ni the thermal emf is equal to zero. Co and Mn added in quantities up to 1 and 2%, respectively, increase the thermal emf of the corresponding alloys;

any further addition of these elements tends to reduce the thermal emf. Cr sharply increases the thermal emf; however, the rate of

Card 1/2

SOV/137-59-1-1487

The Employment of a Thermoelectric Method for the Investigation (cont.)

increase becomes insignificant when the Cr content exceeds a value of 2%. If present in Fe in quantities up to 0.2%, C more than any other element affects the magnitude of the thermal emf. Regardless of the solute concentration of the alloys, cold deformation of up to 90% does not change the magnitude of the thermal emf to any appreciable degree. The phenomena described are explained in terms of the variation in the number of free electrons and in terms of the work connected with their removal.

M. Sh.

Card 2/2

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5/137/61/000/006/067/092 A006/A101

AUTHOR:

Kurilekh, D.G.

TITLE:

Some regularities in the changes of physical properties of iron and

its solid solutions during screngthening

FERIODICAL: Referativnyv zhurnal. Metallurgiya, no. 6, 1961, 28, abstract 6Zh185

("Tr. Ukr. n.-1, trubn. in-ta", 1959, nc. 2, 198 - 210)

TEXT. The author studied changes in the intensity of interference maxima obtained from pure metal specimens and their solid solutions in both initial and deformed state. It was established that in the metal strengthened by alloying , interference maxima are shifted to one direction in respect to the interference maxima of the solvent, whereas in deformed metals the location of interference maxima remains unchanged in respect to the interference maxima of non-deformed mesal in its solid solution. A formula is suggested to determine $\theta'_{\mathcal{R}}$ of metal depending on the degree of distortion of the prystal lattice, It is shown that රි of various deformed and non-deformed abloys are in a satisfactory agreement with experimental θ , values. Strengthening caused by the furgation of solid solutions and oold plustic deformation, is mainly due to deviations of atoms from

Card 1/2

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Some regularities ...

their equilibrium state in the crystal lattice (distortions of the III order); It is shown that this deviation is the higher during deformation, the lesser the deviation of atoms from their equilibrium state during the formation of ∞ . Fe solid solutions. There are 7 references.

F. Zubarev

[Abstracter's notes | Complete translation]

Card 2/2

S/137/61/000/001/030/043 A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1961, No. 1, p. 30, # 12h226

AUTHORS:

Vorob'yev, G.M., Kurilekh, D.G.

TITLE:

Study of Changes in Mosaic Domains and Distortions of II Order in

Fe-Ni and Fe-Co Alloys

PERIODICAL:

"Byul. nauchno-tekhn. inform. Ukr. n.-1. trubn. in-t", 1959, No. 6-

7, pp. 157 - 161

TEXT: The magnitude of distortions of the II order Δ a/a and the dimensions of the zone of coherent dispersion, depending on the degree of deformation, alloys were determined in Fe-Ni (2-12 at % Ni) and Fe-Co (0.8-6% Co) from the width of roentgen diffraction lines (110) and (220), obtained from Fe-radiation and recorded on a MPC-50 (URS-50) device. The alloys were preliminarily deformed by 30% and annealed at 650°C; they were then subjected to static compression by 1.3 - 5%. It was found that during the deformation process the domains were crushed up to a certain limit, definite for each alloy, whereby the crushing of domains ceased when a deformation of 12-20% had been attained. For alloys with Ni Card 1/2

S/137/61/000/001/030/043 A006/A001

Study of Changes in Mosaic Domains and Distortions of II Order in Fe-Ni and Fe-Co Alloys

the limit dimension of domains is the smaller the higher the Ni concentration; in the case of Fe-Co a lower degree of refinement was shown by alloys with a higher hardness in the initial state. It is assumed that the presence of a limit of domain crushing is connected with the partial recrystallization of the material in the volume of domains, which proceeds on account of heat liberated in the microvolumes during the deformation process. The author points to the different nature of changes in the magnitude of \triangle a/a during the initial deformation stage, depending on the type of the alloy extension diagram: in the presence of a flow area, a very slight increase of \triangle a/a was observed at a degree of deformation increased to 5%; in the absence of such a flow area, however, such a compression entailed a sharp increase in \triangle a/a. In Fe-Ni distortions of the II order were higher in alloys with a greater Ni content, at equal degrees of deformation.

A. B.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

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1454, 1555 18.7510

S/137/61/000/002/033/04

Translation from: Referativnyy zhurnal, Metallurgiya. 1961, No. 2, p. 38 # 2Zh 274

AUTHOR:

Vorob'yev, G. M., Kurilekh, D. G.

TITLE:

Investigation of Changes in the Magnitude of Mosaic Domains and Distortions of the II Order in Fe-Si and Fe-Cr Alloys During Plastic Deformation

PERIODICAL:

"Byul. nauchno-tekhn. inform Ukr. r i. trubn. in-t", 1959, No. 6

-7 pp. 161-165

The width of X-ray diffraction lines (110) and (220) obtained from Fe-emission by recording on a YPC -50N (URS-50I) device, was employed to determine the magnitude of distortions of the II order Δ a/a and the dimensions of areas of coherent dispersion, depending on the degree of deformation in Fe-Si (2-10.7 at. % S1) and Fe-Cr (1-8.5 at. % Cr) alloys. The specimens were deformed by 30% and annealed at 650°C; they were then subjected to static compression at deformation degrees ranging from 1.5 to 60%. During deformation process the domains were crushed to a certain limit; the limit size of the domains was the

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S/137/51/000/002/033/046 A006/A001

Investigation of Changes in the Magnitude of Mosaic Domains and Distortions of the II Order in Fe-Si and Fe-Cr Alloys During Plastic Deformation

smaller the higher the concentration of the alloying element in the alloy: the crushing of domains ceased prior to attaining a deformation degree of 15-20%; for alloys with 10.75% Si a decrease in the dimensions of domains was observed until failure of specimen (degree of deformation: 41.5%). It was established that at equal degrees of deformation in alloys with a higher concentration of Si and Cr. nigher stresses of the II order arose. The authors point to the dependence of the change nature of $\Delta a/a$ at the initial deformation stage on the ductility of alloys. There are 5 references.

A. B.

Translator's note: This is the full translation of the original Russian abstract.

Jard 2/2

S/081/61/000/012/002/028 B105/B202

AUTHORS:

Varivoda, I. Kh., Kurilekh, D. G.

TITLE

Precision of the constant crystalline lattice of Fe - Mn - and

Fe - Cr-alloys

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 12, 1961, 34, abstract 125209 (Tr. Dnepropetr. khim.-tekhnol. in-t, 1960, vyp. 10,

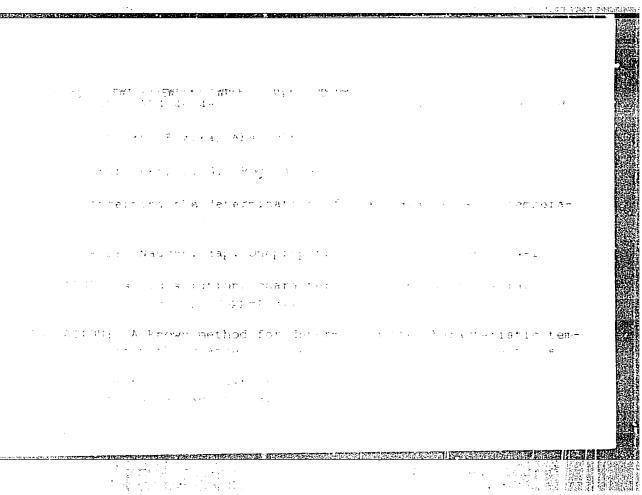
3-7.)

TEXT: In view of the contradictions in earlier publications (Gulyayev A. P., Trusova Ye. F. "Zh. teor. fiz.", 1950, $\underline{20}$, 1, 67; Shteynberg M. M. "Stal'", 1949, No. 8, 737) a careful X-ray study was made (method of back reflection, λ Co) of the dependence of the lattice parameter of alloys of armco iron and Mn and Cr on the concentration of the alloying element in order to solve the problem of the effect of the admixtures Mn and Cr on the change of the parameter of the lattice α -Fe. It was found that upon the formation of the solid solutions Fe - Mn and Fe - Cr the parameter of the lattice α -Fe changes linearly in the concentration limits 1 - 8.5 at% with Mn exerting greater influence on the change of the parameter than Gr.

Card 1/2

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Detained by G. V. Kurdyumov and his co-wolkers. A. Myragina.

SUB CODE: SG, MM ENCL: TO

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710017-7"

KURILEKH, G.A.

We need roller bearings with plastic bushings. Avton., telem. 1 sviaz 2 no.4:41 Ap '58. (MIRA 12:12)

1. Zamestitel' nachal'nika Mizhnedneprovskoy distantsii signalizatsii i svyazi Stalinskoy dorogi.

(Railroads—Equipment and supplies)

(Bearings (Machinery))

5/137/62/000/002/022/14 A006/A101

AUTHORS:

Urusova, N. A., Kurilekh, I. N., Peleshchuk, A. G.

TITLE:

Testing the system of roller cooling of ingots in continuous steel

casting

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 48, abstract 2V285

(Sb. nauchn. tr. Gos. n.-i. i proyektn.in-t metallurg. prom-sti

"Giprostal'", 1960, no. 2, 137-144)

Results are given obtained from industrial tests of roller-cooling of ingots during continuous steel casting. It was established that by repeated roller cooling of ingots, the intensity of heat liberation increased with specific water consumption raised up to $7~\text{m}^3/\text{m}^2$ hour. A further increase of water consumption has practically no effect on heat liberation in the repeated cooling zone. The least total length of internal hot cracks in grade St. 3 steel ingots of 150 x 620 mm section was observed at a specific water consumption as high as 6 to 8 m³/m² hour for the broad ingot edges, and from 5 to 6 m³/m² hour for narrow edges, during repeated roller cooling. Under the aforementioned conditions the central porosity is low. During testing of the roller cooling

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Testing the system of roller cooling ...

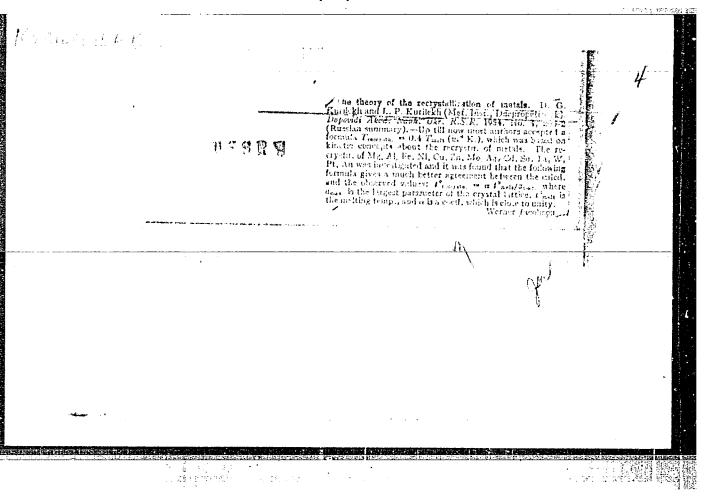
S/137/62/000/002/022/144 A006/A101

system its comparative operational simplicity was noted. The main constructional deficiencies were revealed which entail considerable non-uniformity of cooling and the impossibility of regulating heat liberation in the repeated cooling zone.

V. Gasilina

[Abstracter's note: Complete translation]

Card 2/2



S/0137/64/000/002/1033/1033

ACCESSION NR: AR4027941

SOURCE: RZh. Motallurgiya, Abs. 21167

Kurilekh, L. P.; Fedash, G. M. AUTHOR:

TITLE: Effect of the concentration of alloying elements on the Hall-Kikoin constant in iron alloys

CITED SOURCE: Nauchn. zap. Dneptropetr. un-t, v. 61, 1963, 3-7

TOPIC TAGS: Hall-Kikoin constant, iron alloy conductivity, Hall electromotive force, emf

TRANSLATION: The Hall emf, the induction of the samples and the electrical resistivity of the alloys Fe-Ni (up to 14.86 at. % Ni), Fe-Mn (up to 12.3 at. % Mn), Fe-Si (up to 10.755 at. % Si), Fe-Cr (up to 8.5 at. % Cr), and Fe-Co (up to 6.14 at. % Co) annealed for 8 hr at 11000 were measured as a function of the composition of the alloys at room temperature. The Hall-Kikoin constant and the resistivity rise with the concentration of the alloying elements, but the magnitude of the magnetic saturation in the region of homogeneous solid solutions decreases with increasing concentration of the admixtures, with the exception of Co, which raises the magnetic

Card 1/2

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| | saturation slightly. The results obtained lead the authors to the hypothetical conclusion that the rise in the Hall-Kikoin constant is due to a change in the | | | | | | | | | | | |
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AUTHORS:

Kurilenko, A. I., Kul'kova, N. V.,

76-32 4-11/43

Rybakova, N. A., Temkin, M. I.

TITLE:

The Oxidation of Ethylene to Ethylene Oxide on a

Silver Catalyst (Okisleniye etilena v okis' etilena na se-

rebryanom katalizatore)

I. Experimental Investigation of the Reaction Kinetics I. Eksperimental noye izucheniye kinetiki reaktsii)

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 4,

pp. 797-805 (USSR)

ABSTRACT:

Since the hitherto made investigations of the reaction mentioned in the title supplied different contradicting results the investigations mentioned in this paper were carried out by means of the method of continuous circulation. This method offers the following advantages: The reaction velocity is measured directly as function of the concentrations. The desired temperature in the reaction zone is secured in spite of the great heat effect of the process. Any form of catalyst can be used, without making it possible to the gas to pass by without teuching

Card 1/4

The Oxidation of Ethylene to Ethylene Oxide on a 76-32-4-11/43 Silver Catalyst I. Experimental Investigation of the Reaction Kinetics

the catalyst. The possibility of the formation of external diffusion effects is reduced. From the experimental part from a diagram can be seen among other that the reaction vessel is a vertical glass tube in which the catalyst is located (spongy silver in form of tablets). A circular glass tube connected to the reaction vessel and a circulation pump introduce the gas mixture or drain it. Mostly the obtained ethylene oxide was frozen at -78°C and determined according to Lubatti (Reference 9). The results obtained show among other that in the first 70-80 hours the activity of the catalyst decreases and the selectivity increases (shown graphically). The two reaction velocities of ethylene oxide formation and of carbon dioxide and water formation are dealt with separately. The experiments were carried out with different gas concentrations, that is to say, ethylene 0.6 - 70%, oxygen 1.5 - 90%, ethylene oxide 0.3 - 3%, carbon dioxide 0.1 - 85% in order to determine the reaction kinetics. The results obtained are mentioned on some tables for different cata

Card 2/4

The Oxidation of Ethylene to Ethylene Oxide on a Silver Catalyst. I. Experimental Investigation of the Reaction Kinetics

76-32-4-11/43

lyst samples. The two above mentioned reactions show reaction velocities which are calculated according to analogous equations. The observation that the freezing of ethylene oxide within the cycle does not change selectivity is in coincidence with some other references; the contradiction to the data by O. M. Todes and T. I. Andrianova (Reference 4) is explained by the longer contact time used by them. An impeding effect of the oxidation products on both reaction velocities was observed. The statement that in freezing ethylene oxide and water the reaction velocity sharply increases was already mentioned by Ya. B. Gorokhovatskiy and M. Ya. Rubanik Reference 11). The raise of temperature effected a decrease in the yield of ethylene oxide. The activation energies were calculated and mentioned to be 15200 cal for the formation of ethylene oxide and 19800 cal for the formation of carbon dioxide and water There are 6 figures, 7 tables and 11 references, 7 of which are Soviet.

Card 3/4

The Oxidation of Ethylene to Ethylene Oxide on a 76-32-4-11/43 Silver Catalyst. I. Experimental Investigation of the Reaction Kinetics

ASSOCIATION:

Fiziko-khimicheskiy institut im. Karpeva, Moskva (Moscow Physicochemical Institute imeni narpev)

SUBMITTED:

December 1, 1956

AVAILABLE:

Library of Congress

1. Ethylene--Oxidation 2. Silver catalysts--Applications

Card 4/4

76-32-5-13/47

AUTHORS:

Kurilanko, A. I., Kul'kova, N. V., Rybakova, N. A., Temkin,

TITLE:

The Oxidation of Ethylene to Ethylene Oxide on a Silver Catalyst (Okisleniye etilena vokis' etilena na serebryanom katalizatore) II. Evaluation of the Reaction Kinetics (Alobauzhdeniye kinetiki reaktsii)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 5, pp. 1043 - 1048 (USSR)

ABSTRACT:

Continuing earlier investigations in which contradicting results had been obtained the authors found that after the quick oxygen adsorption and formation of a monomolecular layer a process of slow adsorption follows which spreads over hundreds of hours, which was called the "deep chemical adsorption". It is dependent on the increased solubility of the oxygen in the silver layer below the surface. The slow change of the deeply adsorbed oxygen related to this is formed by the change of the activation of the catalyst, which fact is in agreement with the data by Orzechowski and MacCornak (Reference 4) as well

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The Oxidation of Ethylene to Ethylene Oxide on a 76-32-5-13/47 Silver Catalyst. II. Evaluation of the Reaction Kinetics

as with the observations already made. This way two types of dependence of the kinetics can be assumed: the kinetics in a steady state of the catalyst, and that in a standard state, with different conditions of experiments having to be applied. The present investigations refer to the second case, and it assumed that the reaction velocity does not depend on the oxygen pressure. Corresponding to the data by L. Ya. Margolis and S. Z. Roginskiy(Reference 5) it is assumed that as intermediate product vinylalcohol is formed which then oxidizes to CO₂; a diagram of the reaction mechanism in ionic form is mentioned. In the deduction of the kinetic equations the effect

of the water is neglected and two final formulae of the reaction kinetics are determined. The influence of an increased ethylene concentration in the gas phase is explained by the decrease of the tendency to reach the concentration equilibrium of the deeply adsorbed oxygen and that on the surface, with other possibilities being mentioned as well. For an ethylene oxidation in - flow system an equation is obtained by integration, and ar danation is given for the differences of the

Card 2/3

The Oxidation of Ethylene to Ethylene Oxide on a 76-32-5-13/47 Silver Catalyst. II. Evaluation of the Reaction Kinetics

> results of (Reference 4). There are 6 references, 4 of which are Soviet.

ASSOCIATION: Fiziko-khimicheskiy institut is. L. Ya. Karpova, Moskva (Moscow Institute of Physics and Chemistry imenia. Ya. Karpev)

SUBMITTED:

December 1, 1956

1. Ethylene--Oxidation 2 Oxygen--Adsorption 3. Silver--Adsorptive properties 4. Silver catalysts--Performance

5. Mathematics--Applications

Card 3/3

5(4)
AUTHORS: Kurilenko, A. I., Kul'kova, N. V., Ostrovskiy, V. Ye.,

Temkin, M. I.

TITLE: The Influence of Electrically Negative Elements on the

Catalytic Effect of Silver in the Oxidation of Ethylene

(Vliyaniye elektrootritsatel'nykh elementov na kataliticheskoye

deystviye serebra pri okislenii etilena)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 5, pp 878-881

(USSR)

ABSTRACT: The catalytic oxidation of ethylene to ethylene oxide

 $C_2H_4 + (1/2)O_2 = C_2H_4O$ is carried out on a surface of silver

at 200 - 300° . Small admixed quantities of chlorine compounds increase the selectivity of the catalyzer, i.e., they decrease the relative influence of the undesirable reaction $C_2H_A + 30_2 = 2CO_2 + 2H_2O$ without diminishing the degree of

conversion of ethylene. The applied methods of the kinetic

measurements were described in previous papers. The experiments

were carried out in an apparatus with circulating flow at 1 atmosphere and 218°. The circulating ethylene air mixture

Card 1/4 contained 2.5 + 0.2 volume per cent C2 KA. The degree of con-

507/20-123-5-30/50

The Influence of Electrically Negative Elements Upon the Catalytic Effect of Silver in the Oxidation of Ethylene

version of the C_2H_4 on silver without impurities of Cl and S amounted to 50-60%. The sulphur compounds used were marked by S^{55} . Crude silver (which was produced by decomposition of Ag_2Co_3 in a flow of an ethylene-air mixture) was used as catalyst. The majority of the experiments was carried out by means of silver grains which had a specific surface of $\sim 1m^2/g$. Tabloids (tabletka) of $5 \cdot 3$ mm (specific surface $0.3 \text{ m}^2/g$) were used, as well. ω_4 denotes the rate of the reaction $C_2H_4 + (1/2)O_2 = C_2H_4O$. First, experiments with tabloid catalyst were carried out, and H_2S was added continuously to the reacting mixture for 20-30 hours. In various experiments the concentration varied within the limits of 0.1 and 50 mg/m^3 . The activity of the catalyst increased by 10-20% after the addition of $3.10-4 = 5.10^{-4}$ atomic percent S to the catalyst. By this addition selectivity was increased from s = 0.70 to s = 0.77. Independently of the concentration of H_2S in the gaseous mixture, the exidation of ethylene was

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507/20-123-5-30/50

The Influence of Electrically Negative Elements Upon the Catalytic Effect of Silver in the Oxidation of Ethylene

nearly interrupted by the adding of more than 10-2 atomic per cent of sulphur to the catalyst. During the catalytic process, the majority of sulphur is contained as sulfate on the surface of the silver samples. This allows the calculation of the degree of covering θ of the surface from the total amount of sulphur. A diagram shows the results of the determination of the catalytic activity and of the selectivity of silver grains which had previously been treated with H2S in a "boiling layer". The second diagram gives the data concerning the catalysts which were produced by the simultaneous deposition of Ag, CO, and Ag, S. Also in this case, small amounts of sulphur increase the activity of the catalyst. The results of the experiments with introduction of sulphur Na2SO4 and H_2SO_4 agree with the above-discussed results, they prove the activating and corroding effect of SO_A^- ions upon surfaces of silver. Admixtures of Cl, and HCl in concentrations

Card 3/4

The Influence of Electrically Negative Elements Upon the Catalytic Effect of Silver in the Oxidation of Ethylene

of ~ 2 mg/m³ after the introduction of 0.5.10⁻² atomic per cent Cl (with respect to Ag) decreased the activity of the catalyst by 5 times, and the selectivity increased from 0.70 to 0.76-0.80. Corrosion was partially reversible. Higher concentrations caused an irreversible corrosion. According to the above-discussed results, the increase of the catalytic effect of silver in selectivity caused by the introduction of silver (and chlorine) cannot be explained by a partial corrosion of the catalyst with respect to the undesired reaction $C_2H_4 + 3O_2 = 2CO_2 + 2H_2O$. There are 2 figures and 9 references, 8 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel skiy fiziko-khimicheskiy institut im.

L. Ya. Karpova (Physico-Chemical Scientific Research Institute

imeni L. Ya. Karpov)

PRESENTED: July 21, 1958, by A. H. Frumkin, Academician

SUBMITTED: July 15, 1958

Card 4/4

KUMILENKO, A. I., Cand them Sci -- (diss) "Kinetics of Oridizing
Ethylene on a Silver Catalyst and the Effect of the Electronegative
Elements on the Catalytic Action of Silver," Moscow, 1960, 12 pp,
150 copies (Institute of Organic themistry im N. D. Zelinskiy, AS USSR)
(KL, 49/60, 125)

KURILENKO, A.I.; KUL'KOVA, N.V.; BARANOVA, L.P., TEMKIN, M.I.

Kinetics of ethylene catalytic oxidation. Kin.i kat. 3
no.2:208-213 Mr-Ap '62. (MIRA 15:11)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova.
(Ethylene) (Oxidation) (Catalysis)

ACCESSION NR: AP4036724

8/0020/64/156/002/0372/0374

AUTHOR: Kurilenko, A. I.; Smetanina, L. B.; Aleksandrova, L. B.; Shiryayeva, G. V.; Karpov, V. L.

TITLE: Modification of the surface properties of grafted polystyrene caprone fibers

SOURCE: AN SSSR. Doklady*, v. 156, no. 2, 1964, 372-374

TOPIC TAGS: polystyrene, caprone fiber, polymer, gamma radiation, polyester, epoxoid, styrol sorption, styrol desorption, fiber resin, resin surface tension

ABSTRACT: The authors studied the effect of polystyrene grafts on caprone fibers using an industrial polyester, FN-1, and epoxoids. The grafting polymerization was initiated by Co⁶⁰ γ -radiation employing a method which first required exposure under vacuum and then was carried out in a gas phase. This process also provided for the development of homopolymers. Four experiments were performed. The results are presented in graphs showing the kinetics of destroyed radicals in caprone fibers, the kinetics of the sorption and desorption of styroles in caprone fibers, the influence of grafted polystyrenes on the wettability of fiber resins, and the influence of grafted polystyrenes on the adhesion of resins to caprone fibers. The surface tension of the resin in each of the experiments was constant and indicated

Card 1/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710017-7

ACCESSION NR: AP4036724

similar changes in wettability. Orig. art. has: 4 figures, 1 formula, and 1 equation.

ASSOCIATION: Filial fiziko-khimicheskogo instituta im. L. Ya. Karpova (Affiliate of the Physicochemical Institute)

SUBMITTED: 16Dec63 DATE ACQ: 03 Jun64 ENCL: 00

SUB CODE: MT, 00 NO REF SOV: 002 OTHER: 001

Cord 2/2

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CIA-RDP86-00513R000927710017-7

Hellsher, A.I.; Herranda, A.B., Allegan Edva, L.M.; Childenton of the curfuse properties of eapron tibers by grafting polystyrons. Edvi. Ad Fig. 196 no. 2, 202 204 Fg. 168.

1. rilial riziko-khimicheskopo incritara imeni Earpona. Fredstavieno akademikom V.A., darginya.

TITLE: Determination of resin adhesion to organic fibers with a diameter of 10-40 microns SOURCE: Plasticheskiye massy, no. 3, 1965, 59-60 of the restrict adhesion, adhesion streets on the order of antixylic and grand and the second The method of shear developed by our easesa; it is so seasa and sorbate solution of cobalt maphthemate in styrene with 1-4 hrs. after neating at

ACCESSION NR: AP5006567

100C; polyethylenepolyamine, with a 5-hr. after heating at 100C, was used to colidify (2); and (3) was solidified by 18 hrs. heating at 100C. The results, at table indicate that adherence is a superior of the color of the color

KURILENKO, A.I.; TATARENKO, O.F.; KARPOV, V.L.

Determination of the dynamic elasticity constants of polymeric materials in the field of action of Y-rays and fast electrons. Vysokom. soed. 7 no.8:1422-1426 Ag 165. (MIRA 18:9)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova AN SSSR, Moskva.

| | Y 6070 // | |
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| | L 8870-66 EWT(m)/EPF(n)-2/EWP(v)/EWP(j)/T/EWA(h)/EWA(1) WW/3G/RM | |
| | SOURCE CODE: UR/0190/65/007/010/1707/1712 | |
| ļ | AUTHOR: Kurilenko, A. I.; Shiryayeva, G. V.; Karpev, V. L. 4453 | ا د |
| 1 | Author: Auritenko, A. I.; Shiryeyeva, G. V.; Karpev, V. L. | |
| İ | ORG: Branch of the Physicochemical Institute im. L. Yz. Karpov 44/55/6/ | |
| | (Filial Fiziko-khimicheskogo instituta) | |
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| | resins onto highly oriented organic fibers | |
| 4 | Tooling onto mighty oriented organic fibers | |
| | SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 10, 1965, | |
| - | +101-7176 | |
| | MOREO 1000 | |
| | TOPIC TAGS: polyester resin, synthetic fiber, adhesion, radiation | |
| - | POTAMOLIZACION | |
| | ABSTRACT: The adhesion between radiation-hardened polyester resins | |
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| | TATE OF THE PROPERTY OF THE PR | , |
| | with MGP-9 and caprone, a change in gamma-radiation intensity from 65 to 580 roentgen/sec has practically no effect on adhesion. Increase in | |
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| ļ | and fiber while further increase to 60 Mrad had practically no effect | |
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| on adhesive strength. The magnitude of adhesion to the different resins decreases in the following order: viscose, lavsan, caprone, polypropylene; the adhesion between the latter and a given resin is about half of that between viscose and the resin. This dependence is qualitatively the same if the resin is hardened thermally or by radiation. The somewhat reduced adhesion between MGF-9 and caprone produced by radiation hardening in comparison to thermal hardening was attributed to changes in thesurface properties of the caprone fiber caused by radiation. "Ye. V. Starodubtseva participated in the experimental work. Measurements of physical properties of MGF-9 resin were conducted by O. P. Tatarenko and I. G. Nikulina. The authors thank I. A. Suskin and V. G. Medyannikov for participation in conducting the experiments." Orig. apt. has: 2 figures and 3 tables. | |
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| Card 2/2 | |
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KURILEBKO, A.I.; SMETANINA, L.V.; ALEKSANDBOVA, L.B.; KARPOV, V.L.

Graft polymerization of styrene on carron and lavran fibers.
Vygokom. soed. 7 no.11:1935-1940 N '65.

(MIMA 19:1)

1. Filial fiziko-khimicheskogo instituta imeni L.Ya. Karpova.
Submitted December 19, 1964.

L 10178-66 EWT(m)/EWP(v)/EWP(j)/T/ETC(m)WW/RM AP5028284 SOURCE CODE: UR/0020/65/165/002/0383/0386 ACC NRI AUTHOR: Kurilenko. I.; Shi Ya. Karpov (Fiziko-khimicheskiy institut) Physicochemical Institute im. L. TITLE: Adhesion of thermoplastic and thermosetting polymers to highly oriented synthetic fibers 15, 44, 55 SOURCE: AN SSSR. Doklady, v. 165, no. 2, 1965, 383-386 TOPIC TAGS: synthetic fiber, reinforced plastic, adhesion, destructive testing, polymer binder, polymer ABSTRACT: Adhesive strength was tested by displacement of an individual fiber with respect to a block of the polymeric binder. The smooth surface of the fiber had a contact area of 1 to 1.5 mm2 with the binder. The adhesive strength was calculated as the ratio of the force required for the destruction of the bond to the geometrical area of contact. The highest strength value (121 kg/cm2) was observed for the capron fiber to polyvinyl alcohol bond. The order of adhesive strengths observed is explained in terms of the free-energy changes, i.e., surface-tension changes at the ad-[vs] hesion surface. Orig. art. has: 3 figures and 1 table. SUBM DATE: 06Apr65/ ORIG REF: 003/ OTH REF: 002/ SUB CODE: ATD PRESS: -678.01:620.179.4:541

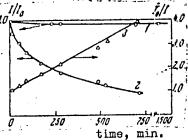
WH/GG/RM IJP(c) SOURCE CODE: UR/0190/65/007/011/1935/1940 ACC NR. AP6008977 (A)Kurilenko, A. I.; Smetanina, L. V.; Aleksandrova, L. B.; Karpov, AUTHORS: ORG: Branch of the Physico-Chemical Institute im. L. Ya. Karpov (Filial fizikokhimicheskogo instituta) TITLE: Graft polymerization of styrene on caprone and lavsan fibers /First communication in the series "Modification of properties of highly oriented fibers by graft polymerization of vinyl monomers"7 SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 11, 1965, 1935-1940 TOPIC TAGS: caprone, radiation polymerization, graft copolymer, polymerization ABSTRACT: It was the object of the investigation to extend the work published by A. I. Kurilenko, L. B. Smetanina, L. B. Aleksandrova, G. V. Shiryayeva, and V. L. Karpov (Dokl. AN SSSR, 156, 372, 1964) and to study the graft polymerization of styrene on caprone and lavsan fibers. The polymerization was initiated by a preliminary irradiation of the fibers in vacuum by ${\rm Co}^{60}$ -/-radiation and subsequent exposure of the fibers to the monomer vapors or by direct irradiation of the fibers in the monomer vapor. The experimental results are represented in terms of the fractional weight increase of the fibers 66.095.26+678.674+678.675+678.746 Card 1/2

L 27310-66

ACC NR: AP6008977

Po and P--the weight of specimen before and after graft polymerization. The kinetics of monomer sorption and disappearance of free radicals was studied. The experimental results are presented graphically (see Fig. 1).

Fig. 1. Kinetics of radical disappearance in caprone fibers. Fibers irradiated with 2.7 Mrad, intensity of radiation - 150 rad/sec, temperature 26C. 1 - epr signal intensity of irradiated fibers in the absence of styrene; 2 - in the presence of styrene; 3 - same as 2 but plotted in reciprocal coordinates.



It is concluded that the rate of styrene graft polymerization is controlled by the diffusion of styrene to the free radicals on the fibers. The grafting of styrene onto the fibers changes the mechanical properties of the latter. Orig. art. has: 2 tables, 3 graphs, and 1 equation.

SUB CODE: 11/ SUBM DATE: 19Dec64/ ORIG REF: 005/ OTH REF: 002

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"APPROVED FOR RELEASE: 06/19/2000

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CIA-RDP86-00513R000927710017-7

SOURCE CODE: UR/0190/65/008/007/1164/1168 AP6023426 ACC NR Kurilenko, A. I.; Aleksandrova, L. B.; Smetanina, L. B. AUTHOR: ORG: none TITLE: Effect of grafting of polystyrene on the surface properties of polycaproamide and polycthylene terephthalate fibers SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 7, 1966, 1164-1168 TOPIC TAGS: polyethylene terephthalate, polycaproamide, polystyrene, synthetic fiber, adhesive bonding ABSTRACT: The effect of grafting of polystyrene to polycaproamide (capron) and polyethylene terephthalate (dacron) fibers on the strength of their adhesive bond with thermosetting polymers (pure oligomers MGF-9) PN-1; ED-51 E-41) was studied. The grafting was performed by the post-effect method from the gas phase. The adhesion of the grafted capron and dacron fibers to the four thermosetting polymers and the wettability of these fibers were shown to depend on the amount of grafted polystyrene and to change in symbatic fashion. The amount of grafted polymer was proportional to the duration of the grafting process, but the rate of grafting in the surface layer decreased with time. Qualitatively, the grafting of polystyrene to the fibers had the same effect on their adhesion to all four polymers: in all cases, the strength of the bond increased in the presence of less than 1% of grafted polystyrene, then dropped to UDC: 66.095.26+678.01:53/.54+678.674/.675

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| values comparable to the initial ones at $2-3\%$ of the grafted component. The resare discussed from the standpoint of the adsorption theory of adhesion. In concate authors thank L. B. Shchetinkina and G. V. Medyannikov, who participated in experiments. Orig. art. has: 3 figures, 1 table, and 3 formulas. | lusion, |
| SUB CODE: 11/ SUBM DATE: 25Feb65/ ORIG REF: 015/ OTH REF: 004 | 1 |
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CIA-RDP86-00513R000927710017-7

Har(m)/T/LaP(j) IJP(c) ACC NR: AP6023427 SOURCE CODE: UR/0190/66/008/007/1180/1184 AUTHOR: Kurilenko, A. I.; Nikulina, I. G.; Fayzi, N. Kh. ORG: none TITLE: Electrical conductivity study of the polymerization kinetics of unsaturated oligomers exposed to Co⁶⁰ gamma radiation SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 7, 1966, 1180-1184 TOPIC TAGS: polymerization kinetics, polyester plastic, oligomer, electric conductivity, ionizing radiation, radiation effect, gamma radiation ABSTRACT: Polymerization induced by ionizing radiation was studied for the first time by means of the electrical conductivity method proposed by R. W. Warfield and M. C. Petree (J. Polymer Sci., 37, 305, 1959) for studying the kinetics of thermal curing of resins. The experiments involved the unsaturated polyester resin PN-1.1 Measurements of the volume conductivity ev of the resin during polymerization were compared with data on the degree of polymerization, obtained by measuring the concentration of -C=0 double bonds by IR spectroscopy and the content of the gel fraction by extraction. It was thus shown that the degree of polymerization can be obtained from e. The polymerization kinetics of PN-1 were determined in the range of 30 to 85°C at dose rates from 50 to 318 r/sec. The kinetic data showed that the curing process is governed by Card 1/2 UDC: 66.095.26+678.674

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| and 2 formulas. | | | | | | | | | | , | |
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KURILENKO, A.K.; ALEKSANDROVA, L.B.

Determination of the contact angle in fiber wetting. Khim. volok. no.3:65-67 165. (MIRA 18:7)

1. Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im. Karpova, Moskva.

KURILENKO, I.A.

The road to a career in stockbreeding. Politekh. obuch. no.3:93-94 Mr '58. (MIRA 11:2)

1. Direktor Spasskoy semiletney shkoly Miloslavskogo rayona Ryazanskoy oblasti.

(Agriculture -- Study and teaching)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710017-7

KURILENKU I. S. Meningeal form of swemp fever Klin. Med. (Mosk.) 1951, 29/8 (72 - 74)

In the acute stage of the disease high fever was accompanied by chills, muscular pains, particularly in the lumbar region, acute headache and severe vomiting. Swelling of the tongue was characteristic as an early symptom. The meningeal syndrome was observed in 41.2% of the cases of swamp fever and leptospirae were cultivated from the blood and CSF during acute meningitis and also in its purulent form. All the cases recovered.

Anigstein - Galveston (XX, 6, 7, 8)

So: Excerpta Medica, Section VIII Vol. 5 No. 8

KURILENKO, I.S.; DOBRYKH, V.A.

Treatment of suppurative meningitis with subarachnoid penicillin. Sovet. med. 17 no.4:18-20 Apr 1953. (CIML 24:4)

1. Candidate Medical Sciences for Kurilenko. 2. Sverdlovsk.

KURILENKO, I.S., polkovnik meditsinskoy sluzhby, kandidat meditsinskikh nauk

Clinical analysis of dynamic disorders of cerebral blood circulation. Voen.-med. zhur. no.5:37-41 My '56. (MLRA 9:9)
(ERAIN--BLOOD SUPPLY)

KURILENKO, I.S., kand.med.nauk.polkovnik meditsinskoy sluzhby

Outcome of acute disorders of brain blood supply from data of dispensary observations. Voen.-med.zhur. no.9:17-19 S '59.

(CEREBRAL HEMORRHAGE)

(GEREBRAL HEMORRHAGE)

(MIRA 14:1)

KURILENKO, I.S., polkovník meditinskoy sluzbby, kand.med.nauk; BREZHNEVA, Ye.S., podpolkovník meditsinskoy sluzbby Some clinical forms of carebral rhoumatism. Voen.-med.zhur. no.4: Some clinical (2-45 Ap '60. (RHEUMATIC FEVER)

(BRAIN-DISEASES)

KURILENKO, I.S., kand.med.nauk; KHOMENKO, G.R. (Moskva)

Result of ultrasonic therapy of diseases of the peripheral nervous system and locomotor system. Klin.med. 39 no.4:123-127 (MIRA 14:4) (ULTRASONIC WAVES—THERAPEUTIC USE) (NERVES, PERIPHERAL) (EXTREMITIES (ANATOMY))

KANAREYKIN, K.F.; KURILENKO, I.S. (Moskva) Clinical variations of writers' spasm. Zhur. nerv. i psikh. 61 no. 1:62-66 '61. (MIRA 14: (MIRA 14:4) (WRITERS' CRAMP)

KANAREYKIN, K.F.; KURILENKO, I.S.

Catammestic data on patients with transitory disorders of the cerebral circulation. Zhur. nevr. i psikh. 62 no.1:32-35 '62; (MIRA 15:4) (CEREBROVASCULAR DISEASES)

KANAREYKIN, K.F.; KURILENKO, I.S. (Moskva) Clinical aspects of associated lesions of the main vessels of the head. Zhur. nevr. i paikh. 64 no.2:161-165 *64. (MIRA 17:5)

CIA-RDP86-00513R000927710017-7" APPROVED FOR RELEASE: 06/19/2000

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710017-7

KURILENKO, I. S. and STEYKER, N. L.

"The Use of Securinine (Securinega Suffruticosa) for the Treatment of Certain Forms of Vascular Hypotension".

Voyenno Meditsinskiy Zhurnal, No. 4, 1962

KANAREYKIN, K.F.; KURILENKO, I.S. (Moskva)

Characteristics of oneiroid states in disorders of cerebral circulation. Zhur. nevr. i psikh. 63 no.4:478-481 '63. (MIRA 17:2)

KOLOSOV, D.Z.; KURILENKO, I.S.

Prevention of vascular crises in elderly age. Vop. geron. i geriat. 4:185-189 '65. (MIRA 18:5)

1. TSentral'nyy voyennyy Krasnoznamennyy gospital', Moskva.

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710017-7

KANAREYKIN, K.F.; KURILENKO, I.S. (Moskva)

Clinical aspects of blood circulation disorders in the abdominal aorta. Zhur. nevr. i psikh. 65 no.10:1498-1501 165.

(MIRA 18:10)

- ,

KURILENKO, Konstantin

),

Radicals of the formula (Si_mO_n) and their X-ray emission spectra Si_{Ra_4} ; brief comments. Min. sbor. no.16:45-47 '62. (MIRA 16:10)

1. Laboratoriya mineralogii-kristallografii, Sorbonna, Parizh.
(Radicals (Chamistry)) (X-ray spectroscopy)

KURILENKO, Konstantin

Alteration of topaz under the effect of heating from 20° to 1250°. Min. sbor. no.16:395-399 162. (MIRA 16:10)

1. Laboratoriya mineralogii-kristallografii, Sorbonna, Parizh. (Topaz-thermal properties)

KURILENKO, K.I. Specific gravity of tourmalines and their changes under heating to 1350°C. Min.sbor. no.11:69-80 '57. (MIRA 13:2) 1. Mineralogicheskaya laboratoriya Sorbonnyy, Parizh. (Tourmaline)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000927710017-7

AUTHORS:

Kuzimenko, S.H., Kurilenko, L.Ya.

EOV/ 0-32-2-5/56

TITLE:

Sorption Properties of Romny and Revovekays Clays of the Ukresk Sorbtsionnyye svoystva romenskoy i revovakoy plila barssay

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 2,

pp 268-272 (USSR)

ABSTRACT:

Ross and Revorkeys clays were compared with clays of the gumbrin and tripoli-earth type as to their corption properties, especially in the regeneration of used transformer and aviation oil. The chemical and mechanical analysis of the clays is given in Tables 1 and 2. The sorption of the vajors of the aromatic hydrocarbons C_6H_6 , $C_6H_5CH_7$, and $C_6H_4(CH_7)_2$ was determined by the static exsicuator method. It has been shown that the sorption properties of the Rommy are Revorkaya clays for these vapors are below those of numbrin, tripolicarth, etc. The sorption of equecus solutions of organic dyes, like malachite green, noth close blue, and basic fuchsin was also investigate. Revorkaya clays howed good sorption properties for these set of the state were even higher than in gumbrin. For the regeneration of cils the clays were ground and passed a sieve of 1,500 openings per cm. Then they were dried for one hour at 110-120°3. The contacting lasted 1 hour

Card 1/2

507/80-32-2-5/56

Sorption of Properties of Roman Reversions Clays of the United

at a temperature of 80°C follower in section laring 1 day and filtering. The color of the oil changes during the treatment. The used transformer and aviation oils after regeneration corresponded to the specifications of the State Standard GOST.

There are 6 tables and 10 Coviet references.

SUBMITTED:

June 21, 1957

Card 2/2

KURILINKO, M. I.

KURIHERKO, M. I.-- "Aconitum nigrificans / Prostrel Cherneyushchiy/ as a Source of New Fedicinal Preparations." (Dissertation for Degrees in Science and Engin- Cow Federal Defended by USSR Educational Institutions) Min Public Health USSR, Nestroperations, Moscow, 1955.* Chair of the Tightology of Medicinal Forms and Galenic Sciences

SO: Knizhnaya Letopis! No. 37, 10 September 1955.

KURILENKO, M.I. [Kurylenko, M.I.]

Study of the lactones of the large pasqueflower(Pulsatilla grandis Wenderoth). Farmatsev.zhur. 17 no.4:27-32 '62. (MIRA 16:3)

1. Kafedra tekhnologii likar skikh form ta galenovikh preparativ Zaporiz kogo farmatsevtichnogo institutu, zab. kafedroyu dotsent S.S. Lyashenko.

(PASQUEFLOWER) (LACTONES)

VASIL'YEV, B.I., inch.; EURILENKO, S.I., inch.

Determining forces acting on the checking devices during ship launching. Sudostroenie 29 no.6140-41 Ja '63. (MIRA 16:7) (Ships--Launching)

DRONOV, S.F.; VASIL'YEVA, K.A.; PANINA, L.I.; KURILENKO, N.K.; SUROVOVA, O.F.

Low-modulus hemicellulose hydrolysis of plant tissues with a pentose hydrolizate. Gidroliz. i lesokhim.prom. 16 no.3:17-19 '63. (MIRA 16:5)

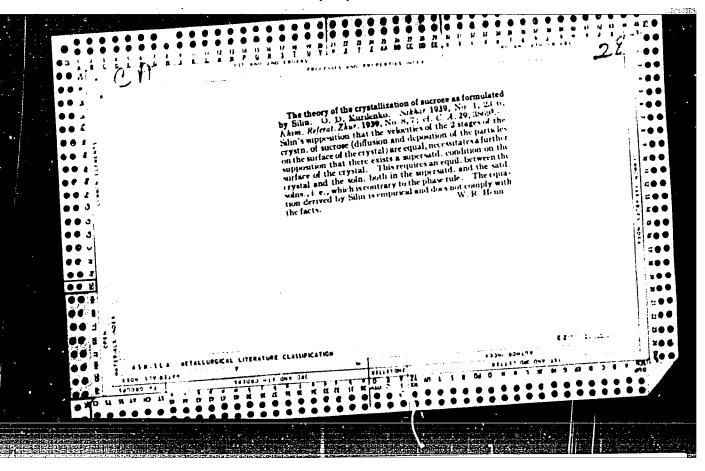
1. Moskovskoye otdeleniye Gosudarstvennogo nauchno-issledovatel'skogo instituta gidroliznoy i sul'fitnospirtovoy promyshlennosti (Hydrolysis) (Hemicellulose)

TOZHDESTVENSKIY, Yu. L.; KURILENKO, N.P.

Bearings (Machinery)

Introduction of methods of cold forging in the manufacture of bearing rings. Podshipnik, No. 6, 1952.

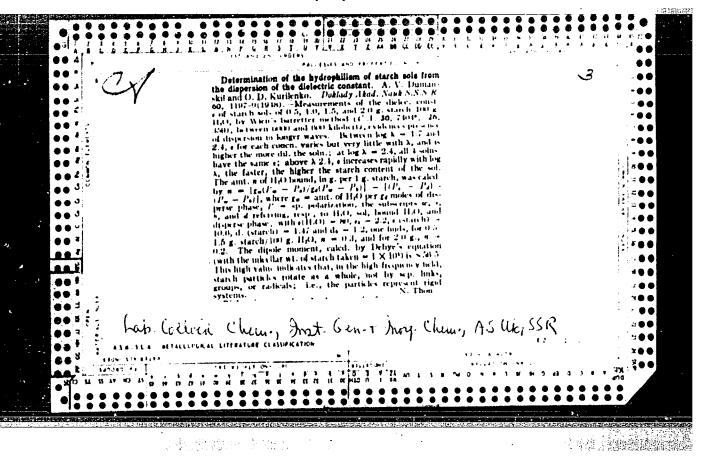
Monthly List of Russian Accessions, Library of Congress, October 1952, UNCLASSIFIED.

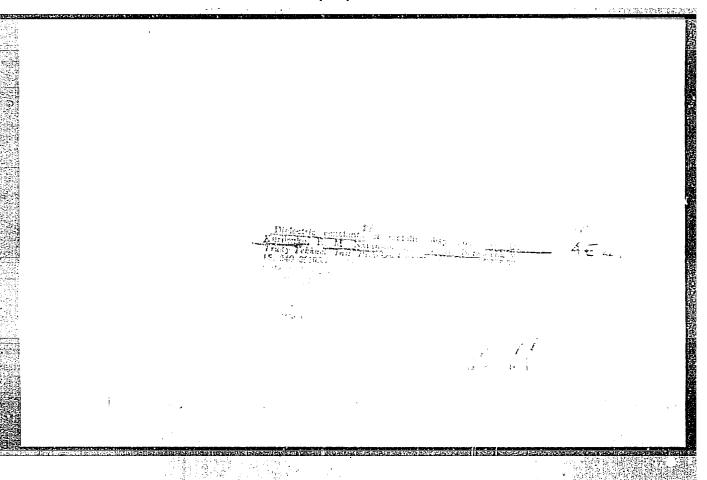


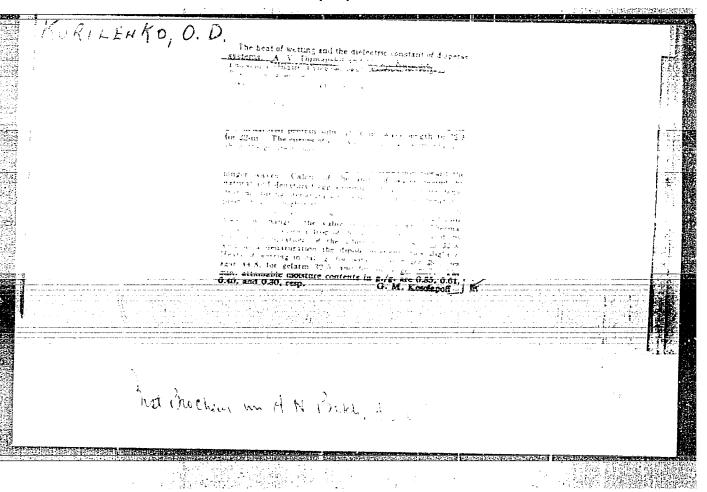
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Honeland, C.D. "method of determining the dielectric rendents in a conducting notice", Nor. Lain, shurnel, 1828, Insur 1, 1. 18-36,- Elliton & Hear.

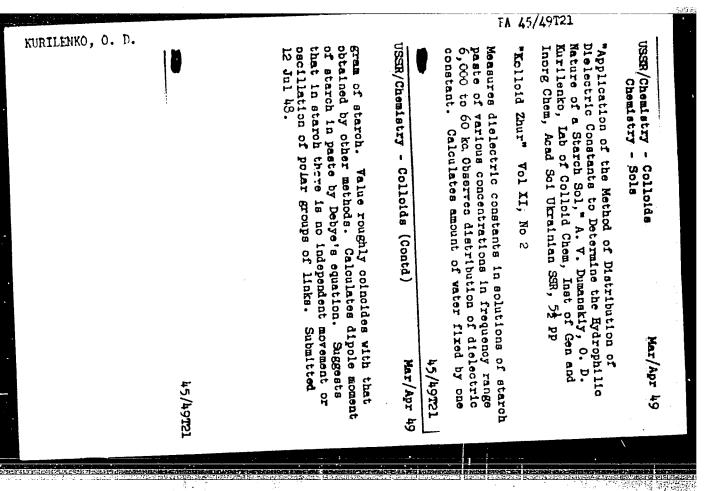
At: Landa, 11 English (Interpret 'nykh States, Sc. 16, 1989).
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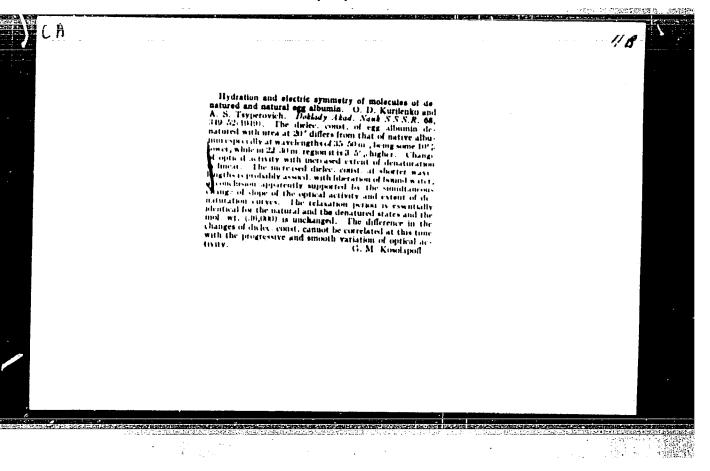
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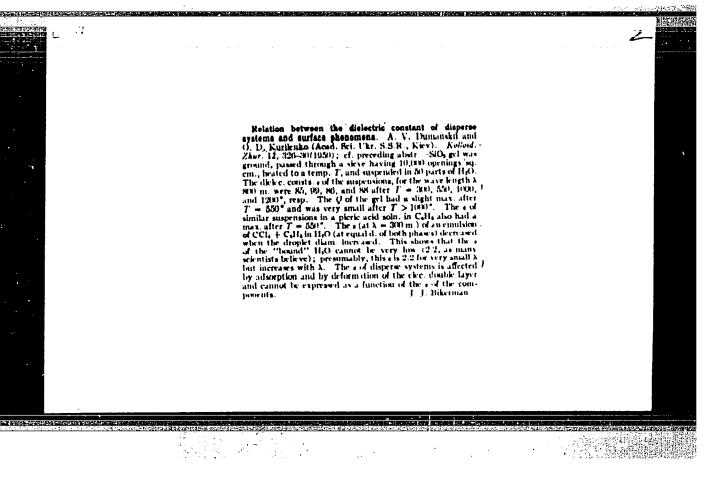












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| 7 | KURITENKO. | 0.0 |
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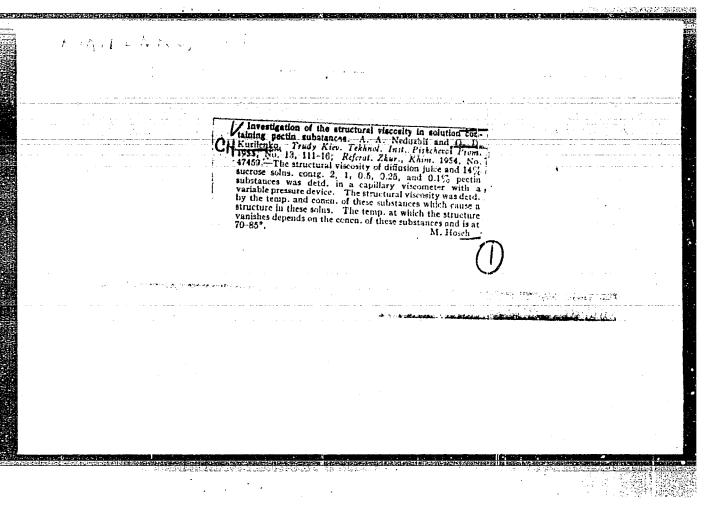
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l.Institut obshchey i neorganicheskey khimii Akademii nauk Ukrainskoy SSR. (Emulsions)



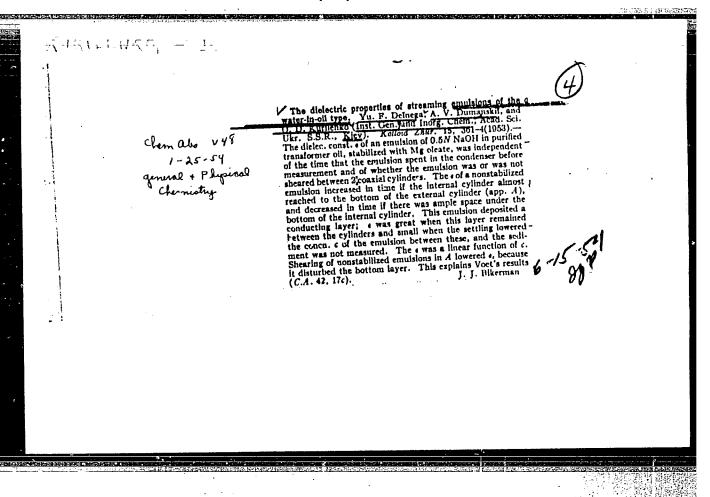
DEYNEGA, Yu.F.; DUMANSKIY, A.V.; KURILENKO, O.D.

Dielectric properties of the vanadium-pentoxide sol in a flow. Koll.zhur. 15 no.4:231-237 153. (MIRA 6:8)

1. Institut obshchey i neorganicheskoy khimii Akademii nauk SSSR (Kiyev).
(Dielectrics) (Vanadium pentoxide)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000927710017-7



| Dielectric properties of solutions and gels of agar. A. V. Dumanskii, O. D. Kurjienko, and Vu. F. Deinega. Kolind.—Zhur. 17, 180-3(1955); cf. preceding abstr.—The delectromate and 12% agar soln. at 45° is 64.2 and 115 for wave lengths A of 27 and 135 m., resp., and a of 1% agar gel is at 20° 71.3, 80.7, and 163, and at 45° 64.3, 80.0, and 110 for A of 27, 47, and 135 m., resp. Thus, gelation affects a at large A only. Temp. coeff. of a varies its sign when A changes; this explains the discrepancies in the literature (cf. Shul'man, C.A. 35, 7765). Also in Celluid J. U.S.S.K. 17, 167-9(1955)(Engl. translation). 1. Bikriman.—— | |
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Investigating the dielectric properties of hydrophilic high polymer solutions. Trudy KTIPP no.17:151-160 '57.

(MIEA 13:1)

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Koll.zhur. 19 no.5:584-586 S-0 '57. (MIRA 10:10)

1.Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti.

(Heat capacity) (Water)

FEDOROV, P.D.; STABNIKOV, V.N.; GLYBIN, I.P.; BHLYAVSKIY, V.V.; POYCHENKO, N.G.; BUZYKIN, N.A.; GOLOVIN, P.V.; DEMCHUK, A.P.; ZHURA, K.D.; KORCHINSKIY, A.I.; KUHILHNKO, O.D.; KLIMKO, N.G.; LITVAK, I.M.; MAL'TSHV, P.M.; NIKOLAYCHUK, I.M.; NAUMOV, A.L.; POPOV, V.D.; RED'KO, F.A.; SKOBLO, D.I.; KHRISTENKO, M.M.; TSYGANKOV, P.S.; SHLIPCHENKO, Z.S.; SHVETSOV, P.D.

Gleb Mikhailovich Znamenskii; obituary. Sakh. prom. 31 no.12:68 D '57. (MIRA 11:1) (Znamenskii, Gleb Mikhailovich, 1901-1957)

AUTHORS: Kurilenko, O. D., Mikhalyuk, R. V. SOV/156-58-3-11/52 The Adsorption of Steam on Aminobentonite Complexes (Adsorbtsiya TITLE: parov vody na swino-bentonitovykh kompleksakh) Nauchnyye doklady vyashey shkoly, Khimiya i khimicheskaya PERIODICAL tekhnologiya, 1958, Nr 3, pp. 447 - 451 (USSR) ABSTRACT: The adsorption of steam at aminobentonite complexes was measured; it was found that at all partial pressures a series is obtained. It corresponds to the decrease of the hydrophilic properties of the aminobentonite complexes, which develops parallel to the increase of the organic cation, or the substitution degree of the exchange complex; respectively. It was shown that the equation of Brunauer, Emmet and Teller (Ref 4) may be used for the isothermal lines of the adsorption of steam on aminobentonite complexes within the range of the partial pressures P/P = 0.05 - 0.35. The amount of water adsorbed on the mono-layer was calculated. These quantities are reduced when the hydrophilic character of the surface of bentonite decreases Bentonite from the Kavkaz (askangel') (Caucasus) and the Ukraine (pyzhevskiy) was investigated. Diagrams 1 and 2 give the Card 1/2

The Adsorption of Steam on Aminobentonite Complexes

307/156-58-3-11/52

adsorption isothermal lines at 20° after various types of pre-treatment. Tables 1 and 2 give the experimental results. They agree well with the equations of Brunauer, Emmet and Teller (Diagram 3). The values for the adsorption constant a_m were calculated for the various bentonite complexes (Table 3). There are 3 figures, 3 tables, and 6 references, 1 of which is Soviet.

ASSOCIATION:

Kafedra Tizicheskoy i kolloidnoy khimii Kiyevskogo tekhnologicheskogo Anstituta pishchevoy promyshlennosti (Chair of Physical and Colloidal Chemistry of the Kiyev Technological Institute for the Food Industry)

SUBMITTED: December 2, 1957

Card 2/2

CIA-RDP86-00513R000927710017-7" APPROVED FOR RELEASE: 06/19/2000

KUR. 11.1 NKO, C.O.

21-58-7-15/27

AUTHORS:

Ovcharenko, F.D., Corresponding Member of the AS Ukrosk,

Mikhalyuk, R.V. and Kurilenko, O.D.

TITLE:

Ion Exchange and Hydrophilia of Bentonites (Ionnyy obmen

i gidrofil'nost' bentonitov)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 7,

pp 747-751 (USSR)

ABSTRACT:

Several investigators have studied adsorption capacities of various types of ground, as e.g. Dumanskiy (Ref. 2), Bykov (Ref. 3 and 7), Goncharov (Ref. 10) and many foreign ones. The authors performed a sories of experiments on wetting bentonites with water and then measuring the heat and water adsorption. It was established that at first the adsorption of water occurs in the more active sites, i.e. corresponds to the greater energetic effects. The entropy of water adsorption considerably reduces, which indicates that the water molecules are there in a most orderly state. The authors compared the results of their experiments with their calculations of pure adsorption heats, obtained from the values of the energy constant C derived from the Lamb and Coolidge (Ref 13) theory, and found that the results of the adsorption and calorimetric measurements agree well. On the basis of adsorption and calorimetric

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Ion Exchange and Hydrophilia of Bentonites

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data, some thermodynamic functions of the bentonite-water system were determined. The character of the changes in some thermodynamical properties of this system warrants a presumption that the bentonite surface is energetically non-homogeneous. There are 5 graphs, 1 table and 13 references, 6 of which are Soviet, and 7 American

ଦ୍ୱାର ଅନ୍ୟାନ୍ତ । ଅନ୍ୟୁକ୍ତ <mark>ଓ ଜନ୍ମ</mark>ୟ କରମ୍ବର ଅନ୍ୟୁକ୍ତ ।

ASSOCIATIONS: Institut obshchey i neorganicheskoy khimii AN UkrSSR (Institute of General and Inorganic Chemistry of the AS Ukr SR) Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti (Kiyev Technological Institute of the Food Industry)

SUBMITTED:

March 14, 1958

NOTE:

Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration.

1. Bentonite-water systems--Adsorptive properties 2. Bentonite -water systems--Thermodynamic properties 3 Heat--Adsorption 4. Water--Adsorption

Card 2/2