L 16468-65 EWI(m)/EPF(n)-2/EPR/T/EWP(t)/EWP(b) Ps-4/Pu-4 IJP(c)/ASD(f)-2/
ASD(m)-3 MJW/JD/JG/MLK
ACCESSION NR: AT4048077 S/0000/64/000/000/0227/0235

AUTHOR: Kornilov, I. I. (Professor, Doctor of chemical sciences); Andreyev, O. N.; Vashchenko, B. M.; Karmanov, V. A.

TITLE: Comparative study of heat resistance in titanium-alloy sheets and welds at 450, 550, 650 and 700C [Report presented at the 5-oye soveshchaniye po metallurgii, metallovedeniyu i primeneniyu titana i yego splavov (5th Conference on Metallurgy, Metallography and Application of Titanium and Its Alloys) held at Moscow, 1963]

SOURCE: Soveshchaniye po metallurgii, metallovedeniyu i primeneniyu titana i yego splavov. 5th, Moscow, 1963. Metallovedeniye titana (metallography of titanium); trudy* soveshchaniya. Moscow, Izd-vo Nauka, 1964, 227-235

TOPIC TAGS: titanium, alloy, heat resistant alloy, aluminum containing alloy, manganese containing alloy, tin containing alloy, molybdenum containing alloy, vanadium containing alloy, chromium containing alloy, iron containing alloy, silicon containing alloy, boron containing alloy

ABSTRACT: Solid and welded 1 mm-thick sheets of OT4, VT5-1, VT14, T3M, OT4-2, AT3, AT4, AT6, and AT8 titanium-base alloys (see Table 1 of the Enclosure) were tested for heat resistance at 450, 550, 650

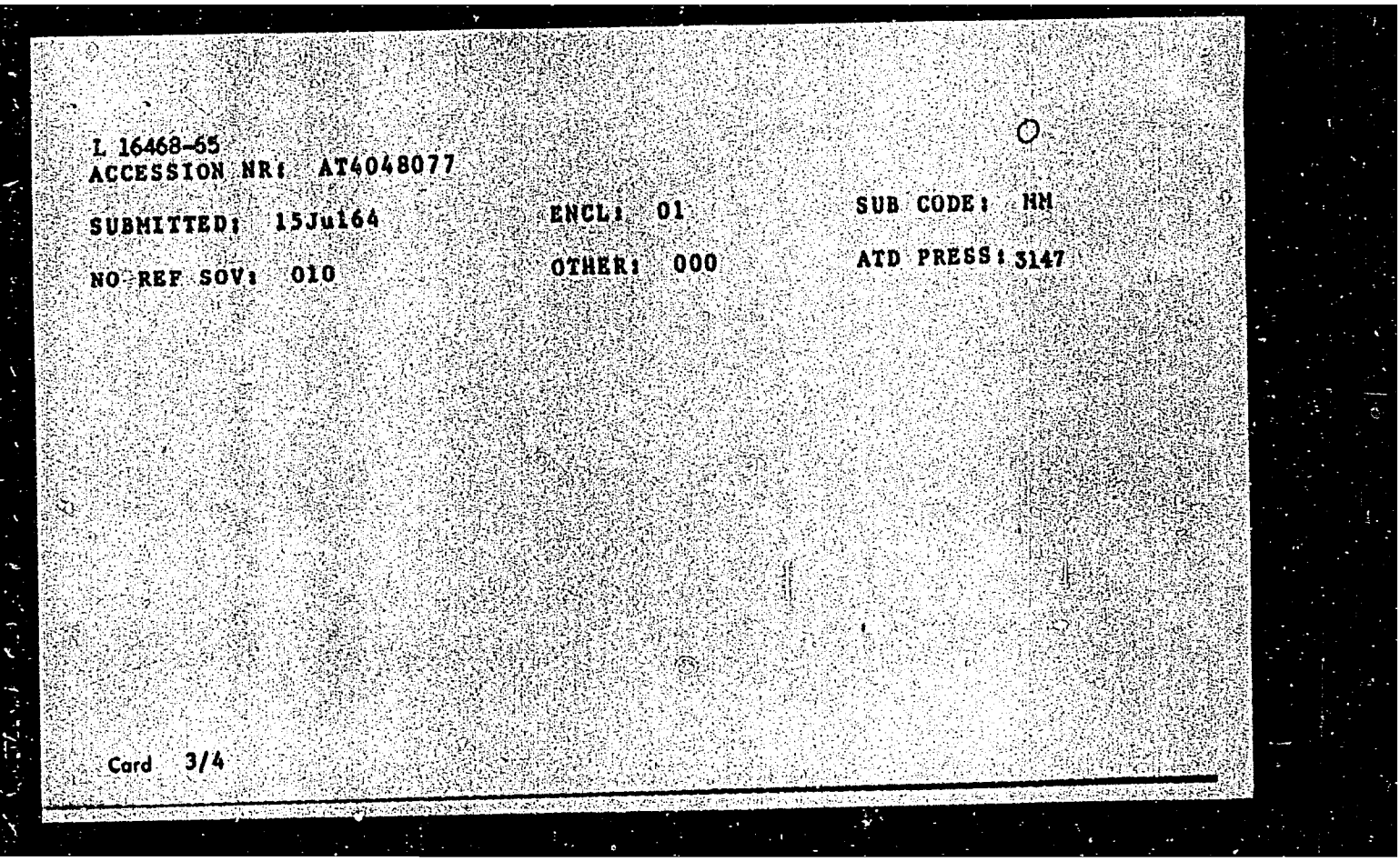
Card 1/4

L 16468-65
ACCESSION NR: AT4048077

and 700C by the centrifugal method. In a 2000-hr test at 450C, stresses was maintained at 2.5 kg/mm^2 for the first 1000 hr, increased to 10 kg/mm^2 for the next 500 hr, and then increased to 20 kg/mm^2 for the last 500 hr. Further tests were conducted under a 2.5 kg/mm^2 stress at 550, 650, and 700C for 1000, 750, and 150 hr, respectively. It was found that the heat resistance of AT3, AT4, AT6, and AT8 alloys at all temperatures is higher than that of T3M, OT4, OT4-2, VT14, and VT5-1 alloys. Heat resistance of AT3, AT4, AT6, and AT8 alloy welds at 450 and 550C was equal to that of the parent alloys, while at 650 and 750C it was higher. AT3 alloy is heat resistant at up to 450—500C, AT4 alloy at up to 500—550C, and AT6 and AT8 alloys at up to 550—600C. AT3 and AT4 alloys retained their mechanical properties after being tested at 450—650C, while T3M alloy lost its ductility and VT14 alloy softened at these temperatures. The last two alloys, therefore, cannot be considered heat resistant. Orig. art. has: 5 figures and 3 tables.

ASSOCIATION: none

Card 2/4



L 16468-65
ACCESSION NR: AT4048077

SUBMITTED: 15Jul64 ENCL: 01 SUB CODE: NM

NO REF SOV: 010 OTHER: 000 ATD PRESS: 3147

Card 3/4

L 16468-65
ACCESSION NR: AT4048077 ENCL: 01

Table 1. Chemical composition of titanium-alloy sheets

Alloy	Al	Cr	Fe	Si	B	Sn	Mn	Mo	V	C	N	H_2
AT free Al	—	0,8	0,5	0,5	0,01	—	—	—	—	—	—	—
AT3	2,8	0,89	0,32	0,45	0,01	—	—	—	—	0,053	0,013	0,01
AT4	4,43	0,89	0,34	0,57	0,01	—	—	—	—	0,023	0,018	0,005
AT6	5,13	0,67	0,23	0,45	0,01	—	—	—	—	0,027	0,021	—
AT8*	6,81	0,98	0,4	0,59	0,01	—	—	—	—	0,01	—	—
VT5-1	4,35	—	0,06	0,08	—	2,22	—	—	—	0,01	0,03	0,007
OT4	2,05	—	0,175	0,07	—	—	1,34	—	—	0,08	0,01	0,007
OT4-2	5,8	—	—	—	—	—	1,1	—	—	—	—	—
T3M	—	—	—	—	—	—	—	2,5	—	—	—	—
VT14	3,9	—	0,001	0,009	—	—	—	2,0	1,1	0,03	0,01	0,007

Card 4/4

L 36530-66 EWT(m)/EWP(w)/T/EWP(t)/ETI IJP(c) JH/WW/JD/JG

ACC NR: AT6012398 SOURCE CODE: UR/0000/65/000/000/0247/0250

AUTHORS: Kornilov, I. I. (Doctor of chemical sciences, Professor); Nartova, T. T.; Andreyev, O. N.

ORG: none

TITLE: A study of the strength of titanium alloys by the method of bending at 600C

SOURCE: Soveshchaniye po metallokhimii, metallovedeniyu i primeneniyu titana i yego splavov, 6th. Novyye issledovaniya titanovykh splavov (New research on titanium alloys); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 247-250

TOPIC TAGS: titanium, titanium alloy, heat resistance, heat resistant alloy, aluminum containing alloy / TG-110 titanium, AV000 aluminum

ABSTRACT: A study was performed on the mechanical properties and heat strength of titanium alloys of several compositions containing 6--6.5% aluminum. Basic materials used in preparing the alloys were titanium TG-110 and aluminum AV000. Other elements were introduced in the form of alloys or as pure metals. The chemical contents of the alloying elements used in 12 different alloys are as given in Fig. 1. Additional information is given in regard to the specimen preparation procedure. Measurements were made of the variation of the deflection indicator with time for the 12 alloys tested under controlled conditions of temperature and pressure. The tests indicated that the heat strength of alloys containing 6--6.5% aluminum increases because of the

Card 1/2 UDC: 669.295.001.5

ORIG REF: 009

L 20630-66 EWT(m)/T/EWA(d)/EWP(w)/EWP(t) IJP(c) JD
ACC NR: AP6010093 SOURCE CODE: UR/0129/66/000/003/0036/0038

AUTHOR: Andreyev, O. N.; Kornilov, I. I.; Nartova, T. T.

ORG: Institute of Metallurgy im. A. A. Baykov (Institut metallurgii)

TITLE: Determination of the characteristics of heat resistance of titanium alloys

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 3, 1966, 36-38

TOPIC TAGS: titanium alloy, heat resistant alloy, alloy property, centrifuge test, tensile test/VT1 alloy, OT4 alloy, VT5 1 alloy, AT3 alloy, AT4 alloy, ST1 alloy

ABSTRACT: Titanium VT1 (0.3% Fe, 0.25% Si) and titanium alloys OT4 (3.5% Al, 1.78% Mn, 0.2% Fe, 0.1% Si), VT5-1 (4.9% Al, 2.75% Sn), AT3 (3.2% Al, 0.8% Cr, 0.3% Fe, 0.4% Si, 0.01% B) and AT4 (4.8% Al, 0.9% Cr, 0.4% Fe, 0.3% Si, 0.01% B) have been tested for creep behavior by centrifugal (Kornilov) and by conventional methods. Both tests were performed at 450 or 500C for 100 hr under a stress 20 kg/mm^2. At both temperatures tested and in both test methods VT1 titanium had the highest creep rate and AT4 alloy the lowest creep rate (see Fig. 1). In stress-rupture tests at 500C under a stress of 30 kg/mm^2 the rupture lives were 12 hr for OT4 alloy, 30 hr for VT5-1 alloy, 210 hr for AT3 alloy, and 260 hr for AT4 alloy. Creep tests by both of the above methods were performed with ST1 titanium alloy of the Ti-Al-Zr-Sn system at 600C under a stress of 15 kg/mm^2 (alloy was annealed at 800C for 1 hr and air cooled). After 100 hr, the total deflection in the centifugal test amounted

UDC: 620.172.224.226:669.295

Card 1/3

to 5.6 mm, and the total elongation in the conventional test amounted to 0.56%: A linear dependence between the elongation (in conventional method) and deflection (in centrifugal method) was found to exist for all the alloys tested. This makes

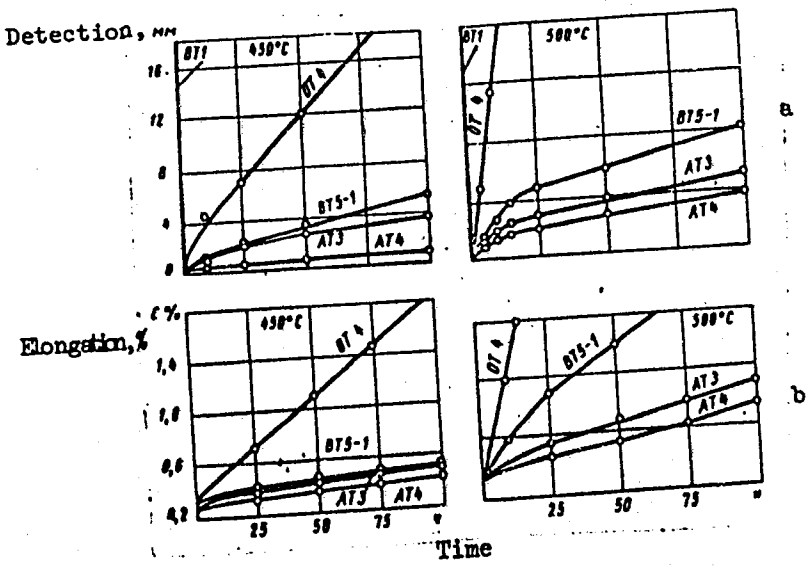


Fig. 1. Creep curves of titanium alloys in centrifugal (a) and in conventional (b) tests

L 20630-66
ACC NR: AP6010093

it possible to determine the elongation from the magnitude of deflection. Orig. art. has: 3 figures and 2 tables. [AZ]

SUB CODE: 11, 14/ SUBM DATE: none/ ORIG REF: 006/ ATD PRESS: 4124

Card 3/3

CATEGORY : [illegible] . General Problems.

ABS. JOUR. : [illegible]., No. 4, 1959, No. 16609

AUTHOR : Andreyev, O. V.

INST. :

TITLE : [illegible] Characteristics of Tall [illegible] ([illegible]).

ORIG. PUB. : [illegible], [illegible], 14-1[illegible]

ABSTRACT : [illegible] literary data and the [illegible] of his own studies, the author shows that tall [illegible] growth [illegible] ([illegible]), as well as [illegible] ([illegible]) and the [illegible] in terms of yield, [illegible] to [illegible] in [illegible] nutritive quality, but surpasses [illegible]. The author recommends that tall [illegible] mixtures and their mixtures with leguminous crops should be widely utilized. -- [illegible]

CARD: [illegible]

O. V. ANDREYEV,

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Vodopropusknyye Truby Pod Zheleznodorozhnymi Nasypyami (Water Drainage Piping Under Railway Embankments, By) V. A. Yaroshenko, O. B. Andreyev, A. G. Prokopovich. Moskva, Transzheldorizdat 1952.

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ACC NR: AM7002944 (A) Monograph UR/

Andreyev, Oleg Vladimirovich; Babkov, Valeriy Fedorovich; Gerburt-Geybovich, Andrey Vladimirovich; Krutetskiy, Yevgeniy Vladimirovich; Zamakhayev, Mitrofan Semenovich; Afanas'yev, Mikhail Borisovich; Bim-Bad, Maks Isaakovich; Ornatskiy, Nikolay Petrovich; Porozhnyakov, Vladimir Sergeyevich; Pryakhin, Aleksey Ivanovich; Sebel'nikov, Petr Ivanovich

Highway designing (Examples) (Proyektirovaniye avtomobil'nykh dorog (primary), Moscow, Izd-vo "Transport", 66, 0395 p. illus., biblio., tables. 6,000 copies printed, 3d ed., rev.

TOPIC TAGS: highway network, highway engineering, highway structure, hydraulic engineering, hydrological calculation

PURPOSE AND COVERAGE: The book gives technico-economic fundamentals for road network designing, and presents examples of transverse and longitudinal cross sections as well as methods of determining openings in small artificial structures. Calculations of earth bed stability and thickness of road pavements are given; planning and design of highways in complicated conditions is described. Hydrological and hydraulic calculations involved in the planning of crossings of

Card 1/3 UDC: 625.721.2(075.8)

ACC NR: AM7002944

large water expanses are examined. The book is intended primarily as a textbook for highway engineering students at institutions of higher learning and may likewise be useful for engineers and technicians. The authors express their gratitude to the reviewers: professors, doctors of technical sciences Ya. A. Kaluzhskiy and I. A. Romanenko; to docents, candidates of technical sciences V. A. Bogayeva, L. A. Barats, N. I. Baskevich, V. M. Kislyakov, and I. A. Nosich; to the chief engineer of the GPI Soyuzdorproyekt V. B. Zavadskiy, and to engineers A. A. Semenovskiy, M. L. Sokolov, and A. S. Fedner; also to instructors of MADI, doctor of technical sciences L. A. Bronshteyn, and candidate of technical sciences Ye. N. Garmanov.

TABLE OF CONTENT [abridged]:

Card 2/3

ACC NR: AM7002044

SUB CODE: 13/ SUBM DATE: 08Jul66/ ORIG REF: 003/

Card 3/3

ANDREYEV, P.

33986 ANDREYEV, P. O Pyerevodnykh Koefitsiyentakh Natural'nogo Topliva V Uslovnogo Lyeglaya Prom-St; 1949, No. 9, S. 27-28

SO: Letopis' Zhurnal'nykh Statey, Vol. 42, Moskva, 1949

ANDREYEV, P.

In the interests of the development of grain production. Sov.profsoiuzy 2 no.5:50-55 My '54. (MLRA 7:6)

1. Predsedatel' rabochego komiteta profsoyuza Petukhovskogo zernosovkhoza Kurganskoy oblasti. (Agriculture)

KNYAZEV, Aleksandr Andreyevich, kand.tekhn.nauk; KHRAMOV, Ivan Nikolayevich, kand.tekhn.nauk; ANDREYEV, P., red.; LUKASHEVICH, V., tekhn.red.

[Harvesting grain in separate stages] Razdel'naia uborka khlebov. Saratov, Saratovskoe knizhnoe izd-vo, 1960. 77 p.
(MIRA 14:2)

(Grain--Harvesting)

MOROZOV, Vasiliy Konstantinovich, doktor sel'khoz. nauk; ANDREYEV, P., red.; LUKASHEVICH, V., tekhn. red.

[Sunflower] Podsolnechnik. Izd.2., perer. Saratov, Saratovskoe knizhnoe izd-vo, 1959. 225 p. (MIRA 14:10)
(Sunflowers)

ROMANOV, Vladimir Alekseyevich, kand. sel'khoz, nauk; ANDREYEV, P., red.; LUKASHEVICH, V., tekhn. red.

[Millet in the southeast] Proso na IUgo-Vostoke. Saratov, Saratovskoe knizhnoe izd-vo, 1960. 60 p. (MIRA 14:9)
(Volga Valley—Millet)

MASHIN, A.R.; SAZHNOV, V.Ya.; ANDREYEV, P., red.; LUKASHEVICH, V., tekhn.red.

[Reinforced concrete and local building materials in rural construction; experience of the Voroshilov Collective Farm in the Bazarnyy Karabulak District] Zhelezobeton i mestnye stroitel'nye materialy v sel'skom stroitel'stve; opyt kolkhoza im.Voroshilova Bazarno-Karabulakskogo r-na. [Saratov] Saratovskoe knizhnoe izd-vo, 1957. 93 p. (MIRA 11:12)
(Reinforced concrete construction)

SHUSTROV, D., kand.tekhn.nauk; ANDREYEV, P., inzh.

Technical progress in inland navigation. Rech. transp. 19 no. 6:9-10 Je '60. (MIRA 14:2)
(Radio in navigation) (Inland navigation)

ANDREYEV, P., inzh.

Characteristics of automatic pilot operations with magnetic stabilization of the course. Rech. transp. 19 no.11:17-18 N '60. (MIRA 13:11)

(Gyrocompass) (Stability of ships)

ANDREYEV, P., polkovnik, doktor istoricheskikh nauk

The Soviet people's historic exploit of world-wide significance.
Komm. Vooruzh. Sil 5 no.1:8-17 Ja '65. (MIRA 18:3)

ANTIPOV, Vladimir Vasil'yevkch, kand. tekhn. nauk; ANDREYEV, P., red.; LUKASHEVICH, V., tekhn. red.

[Repair and adjustment of the fuel system of diesel tractors] Remont i regulirovanie toplivnoi apparatury dizel'nykh traktorov. Saratov, Saratovskoe knizhnoe izd-vo, 1961. 126 p. (MIRA 15:3)

(Diesel engines—Maintenance and repair)

21(4) PHASE I BOOK EXPLOITATION SOV/2608

Andreyev, Pavel Alekseyevich, Andrey Andreyevich Kanayev, and Yevgeniy Danilovich Fedorovich

Zhidkometallicheskiye teplonositeli yadernykh reaktorov (Liquid-Metal Heat-Transfer Agents of Nuclear Reactors) Leningrad, Sudpromgiz, 1959. 383 p. Errata slip inserted. 4,000 copies printed.

Ed. (Title page): A.A. Kanayev; Ed. (Inside book): Ye. N. Shaurak; Scientific Ed.: S.A. Serdyukov; Tech. Ed.: N. V. Erastova.

PURPOSE: This book is intended for engineers and technologists working in plants and designing organizations and also for students in power engineering and ship-building vuzes and tekhnikuns.

COVERAGE: The book contains information from foreign sources on the properties of liquid-metal heat-transfer agents of nuclear reactors. The following aspects of the subject are studied: heat capacity (liquid phase during boiling and condensation); interactions of liquid metals with structural materials; methods of removing im-

Card 1/7

Liquid-Metal (Cont.)

PART I. PROPERTIES OF LIQUID METALS

Liquid-Metal (Cont.) SOV/2608

Card 4/7

ANDREYEV, P.A.

Mechanizing computation and record-keeping operations. Sudostroenie 24 no.2:44-46 F '58. (MIRA 11:3)
(Tabulating machines)

ANDREYEV, P. A.

New developments in materials control by machine. Bukhg. uchet 15 no.2:43-46 F '58. (MIRA 11:3)

1. Glavnyy bukhgalter Primorskogo sovnarkhoza (Vladivostok).
(Vladivostok--Shipbuilding) (Machine accounting)

BOGDASHEVSKIY, Viktor Ivanovich; DONICH, Konstantin Konstantinovich [deceased]; IOFFE, Veniamin Isaakovich; KLEMPERT, Yakov Emmanuilovich; KOLYANKOVSKIY, Viktor Polikarpovich; KRAINSKIY, Abram Isayevich; FOLOTSKIY, Solomon Gertsovich; SVIRSKIY, Solomon Vladimirovich; ANDREYEV, P.A., retsenzent; IVANOV, N.S., retsenzent [deseased]; POMAZKOV, N.S., retsenzent; KRAINSKIY, A.I., nauchn. red.; SHAKHNOVA, V.M., red.; KOROVENKO, Yu.N., tekhn. red.

[Accounting in shipbuilding and machinery manufacturing enterprises] Uchet na sudostroitel'nykh i mashinostroitel'nykh predpriiatiiakh. [By] V.I.Bogdashevskii i dr. Leningrad, Sudpromgiz, 1963. 502 p. (MIRA 17:3)

ANDREYEV, P. A. Cand Chem Sci -- (diss) "Interrelation of certain silicoorganic compounds and cellulose nitrates." Mos, 1958. 15 pp (Min of Higher Education USSR. Mos Order of Lenin Chem-Technological Inst im D. I. Mendeleyev. Chair of Analytic Chemistry), 110 copies (KL, 11-58, 113)

ANDREYEV, P.A.

79-1-40/63

AUTHORS: Kreshkov, A. P., Guretskiy, I. Ya., Andreyev, P. A.

TITLE: The Conversion of Some Organosilicon Compounds With Cellulose-Nitrates (Vzaimodeystviye nekotorykh kremniyorganicheskikh soyedineniy s nitratami tsellyulozy)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 1, pp. 187-193 (USSR)

ABSTRACT: The authors had already earlier shown that certain organosilicon compounds enter into reaction with different anorganic and organic compounds which have active atoms or functional groups (H, Cl, OH, OR, NH_2 and others) and yield valuable products. But the conversion processes of the organosilicon compounds with cellulose nitrates had hitherto not been investigated. The present paper proves that, according to the prevailing conditions, the reaction of organosilicon compounds with non-etherified hydroxyl groups of cellulose takes place at the oxygen under the joining of the macromolecules of nitrocellulose by the silicon atoms (see formulae). The authors investigated the conversion of tetramethoxy-, tetraethoxy-, tetra-n-butoxy-, tetra-iso-amyloxy-, trimethylmethoxy-, diethyl-

Card 1/2

The Conversion of Some Organosilicon Compounds With Cellu[illegible]

dimethoxy- and diethyldiethoxy-silane with cellulose nitrates. They investigated the infrared spectra and the swelling heat of the reaction products of organosilicon compounds with the above-mentioned nitrates. It was found that in this process a reduction of the hydroxyl groups belonging to the elementary member of the cellulose molecule and a separation of alcohol takes place. These processes prove that the conversion of alkoxysilanes and alkylalkoxysilanes with cellulose nitrates mainly takes place at the expense of the conversion with non-etherified hydroxyl groups. Under certain conditions a decrease in nitrogen occurs in the reaction products, compared to the initial nitrate of cellulose, as well as a liberation of nitrogen oxides in the reaction process. All this indicates that this conversion probably also takes place at the expense of the superetherified nitrate groups of cellulose. There are 1 figure, 4 tables, and 26 references, 22 of which are Slavic.

ASSOCIATION: Moscow Chemical-Technological Institute (Moskovskiy khimiko-tekhnologicheskiy institut)
SUBMITTED: November 27, 1956
AVAILABLE: Library of Congress
Card 2/2 1. Chemistry 2. Organic compounds-Infrared spectra

ANDREYEV, P. A.

N. Ya. Guretskiy, A. P. Kreshkov and P. A. Andreyev, "The Methods of Combining Silicon-Organic Polymers with High-molecular Organic Substances."

Report presneted at the Second All-Union Conference on the Chemistry and Practical Application of Sil con-Organic Compounds held in Leningrad from 25-27 September 1958.
Zhurnal prikladnoy khimii, 1959, Nr 1, pp 238-240 (USSR)

09009

5.3830

AUTHORS: Kirichenko, E. A., Andreyev, P. A.

S/153/60/003/01/023/058
B011/B005

TITLE: Quantitative Determination of OH Groups in Cellulose Nitrates and in Products of Their Combination With Organosilicon Compounds by the Method of Infrared Spectra

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol 3, Nr 1, pp 88-91 (USSR)

TEXT: The authors developed methods for a direct quantitative determination of OH groups in cellulose nitrates and their reaction products with organosilicon compounds. The results prove a chemical interaction of dimethyldimethoxysilane with non-esterified OH groups of cellulose nitrates. During investigations carried out by the authors (Refs 1,2) it became necessary to determine the OH groups qualitatively and quantitatively. No reliable method had been published hitherto. The authors used the method of molecular absorption spectroscopy in the infrared section of the spectrum. This method is known from publications as "method of the graduation curve" (Refs 7,8). The spectra were recorded on an IKS-11 spectrophotometer with a NaCl lens. The samples consisted either of a film 19-20μ thick, or of a suspension in chemically pure vaseline oil. The absorption maximum at 2.9μ was measured. The graduation curve (Fig 1) was

Card 1/3

69669

Quantitative Determination of OH Groups in Cellulose Nitrates and in Products of Their Combination With Organosilicon Compounds by the Method of Infrared Spectra

S/153/60/003/01/023/058
B011/B005

determined on the basis of infrared spectra of 5 cellulose-nitrate samples. The content of Oh groups was calculated from the content of nitro groups (Lunge's method). Table 1 shows the results. Table 2 indicates the permeability at 2.9μ of the reaction products of the cellulose-nitrate samples with dimethyldimethoxysilane as well as the content of OH groups. The OH content was determined on the basis of the graduation curve (Fig 1) and the values mentioned at last. The graduation curve was also used for determining OH groups of the newly formed products. Table 3 shows that here the relative content of OH groups per 1 elementary member of the macromolecule is slightly lower than in the nitrates used. The molecular weight of the interaction products is slightly higher than that of the pure nitrates. The authors introduced correction coefficients to compensate for the too low content of OH groups (Table 3). These coefficients lie between 1.03 and 1.2 according to the content of nonsubstituted OH groups in the cellulose nitrate used. Table 4 shows the accurate data after introduction of the said coefficients. A comparison of tables 1 and 4 shows that the content of free OH groups decreases considerably in the reaction products of

Card 2/3

69669

Quantitative Determination of OH Groups in Cellulose Nitrates and in Products of Their Combination With Organosilicon Compounds by the Method of Infrared Spectra

S/153/60/003/01/023/058
B011/B005

cellulose nitrates with dimethyldimethoxysilane as compared with the nitrates used. Therefore, it can be stated that the interaction under review is a chemical process caused by the reaction of the free, non-esterified OH groups of cellulose nitrate. Figure 2 shows the graduation curve drawn on the basis of the data determined (Tables 2 and 4). It permits a direct determination of OH groups in the reaction products mentioned on the basis of light absorption. There are 2 figures, 4 tables, and 12 references, 5 of which are Soviet.

ASSOCIATION: Kazakhskiy tekhnologicheskiy institut; Kafedra obshchey khimii (Kazakh Technological Institute; Chair of General Chemistry)

SUBMITTED: February 6, 1959

Card 3/3

Z/011/61/018/001/012/014
E112/E453

AUTHORS: Andreyev, P.A., Kreshkov, A.P. and Gureskiy, I. Ya.

TITLE: Some properties of silicone-modified nitrocellulose surface coatings

PERIODICAL: Chemie a chemická technologie, 1961, Vol.18, No.1, p.33, abstract Ch 61-451 (Lakokras. Materialy, 1960, No.1, pp.13-17)

TEXT: The reaction of nitrocellulose with organic silicone derivatives leads partly to a replacement of OH- by OSi-groups, and partly to transesterification of the nitric esters, with the production of high-molecular nitrocellulose derivatives and containing Si in linear or cross-linked structures. The physical and mechanical properties of coatings prepared from these polymers are listed. The modification, by means of organic silicones, improves the heat and water resistance of the coatings and increases their strength, adhesion and impact strength.
1 diagram, 1 table, 19 literature references.

[Abstractor's note: Complete translation.]

Card 1/1

with methoxy groups react more readily with cellulose nitrates. The films were tested with respect to the standard for lacquer films and results showed that the hardness was 5 - 8% lower than for nitrocellulose films but the adhesion to glass, brass and steel, elasticity, and impact strength were higher. The silicon content depends on the conditions of combination of the original compounds. Thus combination of cellulose with chemically pure organo-silicon compounds led to a product with a silicon content of 0.15 - 1.0%, combination in the presence of 0.01% $SiCl_4$ to a content of 0.3 - 7.0% and combination in a heterogeneous medium with 0.01% $SiCl_4$ to a small fraction containing around 20% silicon.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva (Moscow Institute of Chemical Technology im. D. I. Mendeleyev)

ANDREYEV, P.A.; KOBZARENKO, Z.N.

Improvement of the method of determining phosphorus in nitrophoska.
Trudy MKHTI no.44:152-154 '64. (MIRA 18:1)

ANDREYEV, P.A., kand. tekhn. nauk; APUKH, V.V., inzh.; BOBNIK, I.I., inzh.; SIDORA, N.N., inzh.

Study of a screw compressor with oil injection in the operating strip. Energomashinostroenie 10 no.10: 40-42 O '64
(MIRA 18:2)

ACC NR: AM6008009 (71, N) Monograph UR/

Andreyev, Pavel Alekseyevich; Gremilov, Dmitriy Ivanovich; Fedorovich, YEvgeniy Danilovich

Heat exchangers in nuclear power plants (Teploobmenyye apparaty yadernykh energeticheskikh ustanovok) Leningrad, Izd-vo "Sudostroyeniye", 65. 0351 p. illus., biblio. Errata slip inserted. 2,550 copies printed.

TOPIC TAGS: nuclear power plant, heat exchanger, atomic energy plant equipment, nuclear reactor coolant

PURPOSE AND COVERAGE: The book examines problems of design and introduces methods for heat, hydrodynamic, and strength calculations of heat exchangers in nuclear power plants. Particular attention is given to primary heat exchangers and their design features. The book is intended for specialists working in the field of nuclear power plant construction. It may serve as an aid to designers of heat exchangers in other branches of engineering, or as a text for students specializing in related fields at technical schools and institutions of higher learning.

TABLE OF CONTENTS (abridged):

Card 1/2 UDC:621.491

ANDREYEV, Pavel Alekseyevich; STRAKHOVICH, K.I., prof., retsenzent; KOTOV, A.P., kand. tekhn. nauk, retsenzent; TYRYSHKIN, V.G., nauchnyy red.; VASIL'YEVA, N.N., red.; [illegible]SAL, R.K., tekhn. red.

[Rotary screw compressors] Vintovye kompressornye mashiny. Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl., 1961. 250 p. (MIRA 15:3)
(Compressors--Design and construction)

ANDREYEV, Petr Alekseyevich; CHERKASSKIY, Yakov [illegible]; LOKHKHIN, B.N., retsenzent; SERGEYEV, A.M., [illegible]; SANNIKOV, I.V., nauchn. red.; VLASOVA, Z.V., red.

[Economic analysis of the balance sheet of a shipbuilding enterprise] Ekonomicheskii analiz balansa sudostroitel'nogo predpriiatiia. Leningrad, Sudostroenie, 1965. 203 p. (MIRA 18:5)

L 13482-66

ACC NR: AP6002221 (N) SOURCE CODE: UR/0080/65/038/012/2842/2844

AUTHOR: Keshishyan, G. O.; Andreyev, P. F.; Danilov, L. T.

ORG: none

TITLE: Extraction of thorium from dilute solutions by means of tannate of gelatin

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 12, 1965, 2842-2844

TOPIC TAGS: thorium, tanning material, nonferrous metal, gel
sea water, acid base equilibrium, aqueous solution, chemical precipitation

ABSTRACT: A method is presented for extraction of thorium from highly diluted aqueous solutions containing $CaCl_2$, Na_2SO_4, and NaCl. The object of the work was to examine feasibility of extracting thorium from sea water. Edible gelatin and imported DAB-6 tannin were used as extraction agents. Thorium was percipitated from solutions containing 100-200 micrograms of Th^{232} and some radioactive Th^{234} per 500 ml of starting solution, using 5 ml of 1% solution of DAB-6 tanning and gelatin. Thorium removal from a solution containing various neutral salts is shown in fig. 1. Thorium removal from simulated sea water is shown in fig. 2.

UDC: 546.841

Card 1/2

Card 2/2

VASSOYEVICH, N.B., prof., doktor geol.-miner.nauk; ANDREYEV, P.F., kand. khim.nauk; BELYAKOV, M.F., kand.geol.-miner.nauk; BARANOVA, T.E., nauchnyy sotrudnik; BUSHINSKIY, G.I., prof.; GEKKER, R.F., prof., doktor biolog.nauk; GROSSGEYM, V.A., kand.geol.-miner.nauk; ITENBERG, S.S., dotsent; KRISHTOFOVICH, A.N.; LYUBOMIROV, B.N., kand.geol.-miner.nauk; PORFIR'YEV, G.S., kand.geol.-miner.nauk; POKROVSKAYA, I.M., prof., doktor geol.-miner.nauk; RADCHENKO, O.A., kand.khim.nauk; RUKHIN, L.B., prof., doktor geol.-miner.nauk; TORGOVANOVA, V.B., gidrogeolog; USPENSKIY, V.A., kand.khim.nauk; FROLOV, Ye.F., kand.geol.-miner.nauk; FURSENKO, A.V.; KHAIN, V.Ye., prof., doktor geol.-miner.nauk; SHARONOV, V.V., prof., doktor fiziko-matem.nauk; YASHCHURZHINSKAYA, A.B., vedushchiy red.; SOKOLOVA, Ye.V., tekhn.red.

(Continued on next card)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101520006-6"

VASSOYEVICH, N.B.---(continued) Card 2.

[Handbook for field geologists and petroleum prospectors] Sputnik polevogo geologa - neftianika. Leningrad, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, Leningr.otd-nie, 1952. 504 p. (MIRA 12:12)

1. Groznenskiy ordena Trudovogo Krasnogo Znameni neftyanoy institut (for Itenberg). 2. Deystvitel'nyy chlen AN Ukrainskoy SSR (for Krishtofovich). 3. Chlen-korrespondent AN Belorusskoy SSR (for Fursenko).

(Petroleum geology--Handbooks, manuals, etc.)

BAKIROV, A.A.,doktor nauk, redaktor: VASSOYEVICH, N.B., doktor nauk; VEBER, V.V., doktor nauk; DVALI, M.F., doktor nauk; DOBRYANSKIY, A.V., doktor nauk; MAYMIN, Z.L., doktor nauk; MIRCHINK, M.V., redaktor; ANDREYEV, P.F., kandidat nauk; AYZENSHTADT, G.Ye., kandidat nauk; BOGOMOLOVA, A.I., kandidat nauk; GORSKAYA, A.I., kandidat nauk;ZHABREV, D.V., kandidat nauk, redaktor; KAZMINA, T.A., kandidat nauk; MESSINEVA, M.A., kandidat nauk, PETROVA, Yu.N., kandidat nauk; RADCHENKO, O.A., kandidat nauk; TATARSKIY, V.T., kandidat nauk; TIKHIY, V.N., kandidat nauk; USPENSKIY, V.A. kandidat nauk, DYAKOV, B.F., redaktor; SAVINA, Z.A., redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor.

[Origin of oil] Proiskhozhdenie nefti. Pod red. M.F.Mirchinka i dr. Moskva, Gos.nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry, 1955. 483 p. (MLRA 9:1)

1. Chlen korrespondent AN SSSR (for Mirchink)
(Petroleum geology)

AID P - 2790

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 18/19

Author : Andreyev, P. F.

Title : S. M. Grigor'yev, O protsessakh obrazovaniya i svoystvakh goryuchikh iskopayemykh. Formation and properties of mineral fuels, 1954 (Book Review)

Periodical : Zhur. prikl. khim. 28, 4, 448-449, 1955

Abstract : Critical review

Institution : None

Submitted : No date

ANDREYEV, P.F.

Bacterial hypothesis on the origin of petroleums. Trudy VNIGRI no.83:140-148 '55. (MLRA 8:10)
(Petroleum geology)

ANDREYEV,P.F.; IVANTSOVA,V.V.; POLYAKOVA,N.N.; SILINA,N.P.

Properties and structure of the dispersed organic matter of sedimentray rock. Trudy VNIGRI no.83:171-187 '55.
(Geochemistry) (MLRA 8:10)

ANDREYEV,P.F.; MASAGUTOVA,D.A.; POLYAKOVA,N.N.; CHERNYSHEVA,A.S.

Some regularities of the occurrence of organic matter in rocks of the middle Miocene in northeastern Caucasus. Trudy VNIGRI no.83:231-273 '55. (MLRA 8:10)
(Caucasus, Northern--Geochemistry) (Caucasus, Northern--Geology, Stratigraphic)

Andreyev P.F.

USSR/Cosmochemistry - Geochemistry. Hydrochemistry. D.

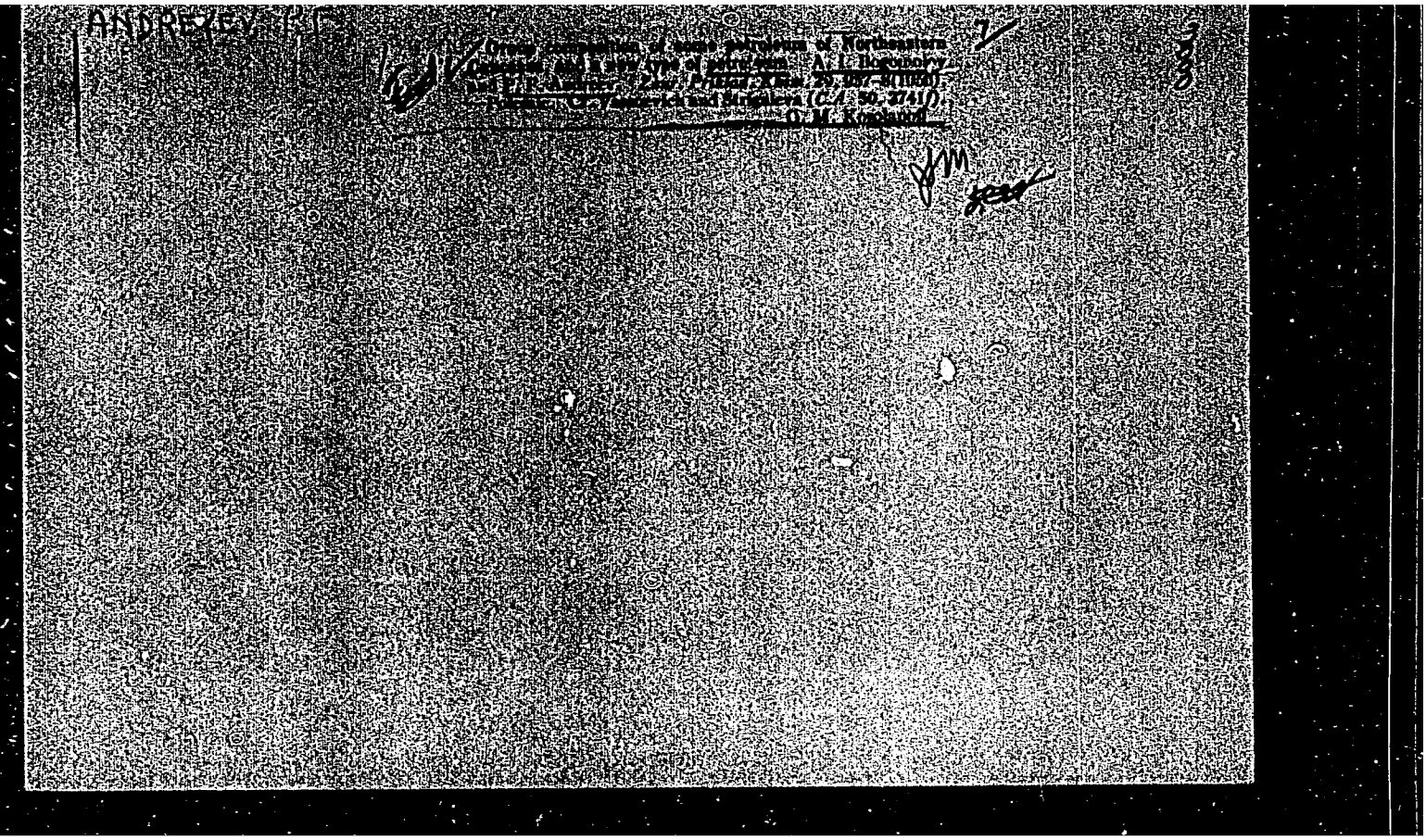
Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 30413

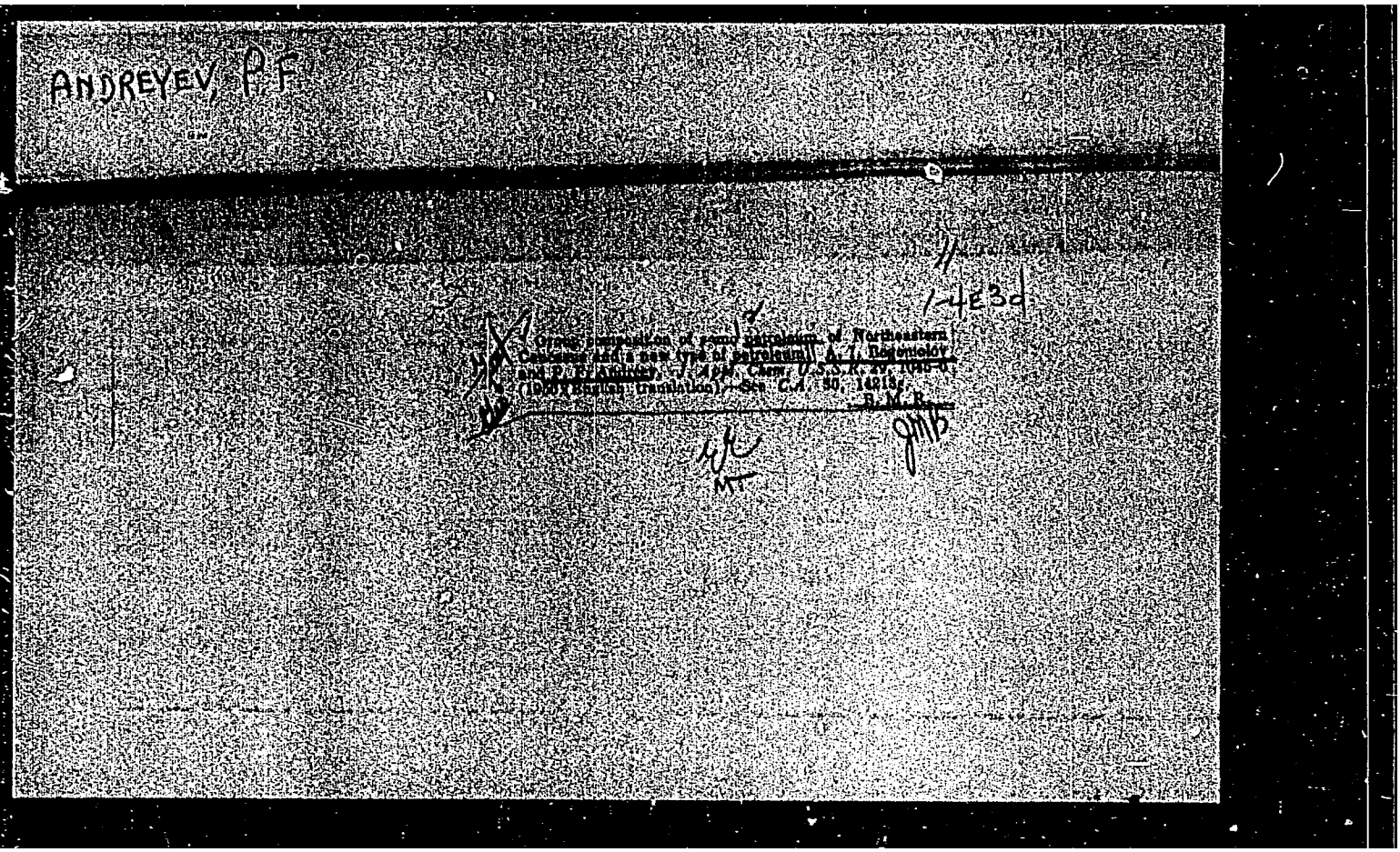
Author : Andreyev, P.F.
Inst :
Title : New Data Concerning Properties of Dispersed Organic Matter of Sedimentary Rocks

Orig Pub : Novosti neft. tekhn., Geologiya, 1956, No 4, 16

Abst : A brief report, without presentation of experimental data, on the development of new methods which obviate the necessity of isolating the organic matter (I) from the composition of the rock. The quantitative data obtained do not reflect the presence, in the specimen under study, of a considerable amount of the mineral portion of the rock. The proposed methods include determination of the content of ''volatile'' carbon, thermolysis, comparative ixidability, determination of the content of carboxyl and methyl groups, direct method for determination of

Card 1/2





15-57-10-14446

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10, p 178 (USSR)

AUTHOR: Andreyev, P. F.

TITLE: The Role of External Environment and Internal Factors in the Formation and Alteration of Oil in Nature (Some Questions on the Theory of the Origin of Oil) /Rol' vneshnikh usloviy i vnutrennikh faktorov v protsessakh obrazovaniya i izmeneniya neftey v prirode (Nekotoryye voprosy teorii genezisa nefti)/

PERIODICAL: Tr. Vses. neft. n.-i. geologorazved. in-ta, 1956, Nr 95, pp 266-297

ABSTRACT: The factors in the formation and alteration of oil in nature are divided into the essential internal ones and the unessential external ones, (stimulating, neutral, and retarding). Organic substances of suitable composition and structure, and also a reducing environ-

Card 1/3

The Role of External Environment and Internal Factors (Cont.)

products enriched by hydrogen. Further change in these products sometimes leads to their concentration. The source rock undergoes slow change which leads to further loss of heterocyclic atoms and to the formation of material with graphitic structure. The alteration of oil proceeds in this same direction. External conditions (temperature, catalysts, time factor, hydrogen sulfide contamination, bacterial activity, etc.) are believed to be necessary, but incapable in themselves of producing oil and its further alterations. They merely act as mobilizing factors of the spontaneously occurring processes of lowering the energy level.

Card 3/3

G. A. Gladysheva

ANDREYEV, P.F.

Mechanism of processes of the transformation of organic matter in reduction conditions of bottom deposits. Trudy VNIGRI no.95: 298-316 '56. (MLRA 9:12)

(Reduction, Chemical)

15-57-10-14441

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10, p 177 (USSR)

AUTHORS: Andreyev, P. F., Andreyeva, I. V.

TITLE: The Internal Structure of Paraffin Oils (K voprosu o vnutrennem stroyenii parafinistykh neftey)

PERIODICAL: Tr. Vses. neft. n.-i. geologorazved. in-ta, 1956, Nr 95, pp 355-383.

ABSTRACT: Paraffin oil is believed to be a system consisting of a dispersing medium (liquid hydrocarbons) and a dispersed phase (heavy tarry substances and solid hydrocarbons). The materials of the dispersed phase are capable of mutual adsorption and formation of complex aggregates.

G. A. Gladysheva

Card 1/1

15-57-4-5126

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4, p 150 (USSR)

AUTHORS: Andreyev, P. F., Polyakova, N. N.

TITLE: Coefficients of Heat Expansion of Petroleums from the Groznyy Region (Koeffitsiyenty teplovogo rasshireniya neftey Groznenskogo rayona)

PERIODICAL: Tr. Vses. neft. n.-i. geologorazved. in-ta, 1956, Nr 95, pp 422-440

ABSTRACT: Bibliographic entry

Card 1/1

ANDREYEV, P. F.

Criteria of the genetic difference in tar substances of petroleum.
Geol. nefti 1 no.4:29-39 Ap '57. (MLRA 10:8)
(Petroleum) (Tar)

ANDREYEV, P. F.

8

3475. THERMODYNAMIC ANALYSIS OF CATALYTIC CRACKING OF HIGH-MOLECULAR HYDROCARBONS OF PARAFFIN TYPE. Andreev, P.F. (Zh. prikl. khim. (J. appl. Chem., Moscow), 1957, vol. 30, 302-305; abstr. in Chem. Abstr., 1957, vol. 51, 4068). The free energies per carbon atom of paraffins, olefins, and aromatic hydrocarbons vary with temperature. At 500°K the paraffin hydrocarbons are more stable, but at higher temperatures the differences become smaller, which indicates that high molecular paraffins, starting with $C_{20}H_{42}$, can be converted to aromatic hydrocarbons at low temperatures in the presence of a suitable catalyst. This suggests an explanation of changes in crude oil composition found in nature. C.A.

ANDREYEV, P.F.

USSR/Chemical Technology - Chemical Products and Their Application. Treatment of Natural Gases and Petroleum. Motor and Jet Fuels. Lubricants. I-8

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2529

Author : Andreyev, P.F., Ivantsova, V.V.

Inst : All-Union Scientific Research Institute of Geological Petroleum Exploration.

Title : The Role of Sulfur in Natural Processes of Petroleum Transformatio Transformation.

Orig Pub : Tr. Vses. neft. n.-i. geologorazved. in-ta, 1957, No 105, 66-67

Abstract : The role of sulfur in processes of petroleum alteration under natural conditions consists in accelerating the processes of oxygen loss and hydrogen redistribution with formation of water, methane hydrocarbons and graphite. Concurrently

Card 1/2

ARKYEYEV, P.F.

Energy bases of organic theory for petroleum formation. VNIGRI no.105:270-278 '57. (MIRA 11:9)
(Petroleum) (Geochemistry)

ANDREYEV, P. F.

11(0) PHASE I BOOK EXPLOITATION SOV/1960

Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazvedochnyy institut

Geokhimicheskiy sbornik, no. 5 (Collected Papers on Geochemistry, Nr 5) Leningrad, Gostoptekhizdat, 1958. (Series: Its: Trudy, vyp. 123) 1,000 copies printed.

Ed.: Pavel Fedorovich Andreyev; Exec. Ed.: L. Ya. Rusakova; Tech. Ed.: I. M. Gennad'yeva.

PURPOSE: The book is intended for the technical and scientific personnel of institutes and TsNIL (Central Scientific Research Laboratories) of the petroleum industry, and all those interested in the geology and geochemistry of petroleum.

COVERAGE: The book is the fifth issue of the Geokhimicheskiy sbornik (Collected Papers on Geochemistry) and contains articles contributed by VNIGRI staff members (All-Union Scientific Research Institute for Geological Survey) on various aspects of geo-

Card 1/7

solving many genetic problems. I. K. Vorobeva describes a new method of counting the total number of live bacteria. It may be applied in various microbiological studies. References accompany each article.

TABLE OF CONTENTS:

[illegible] Papers (Cont.) [illegible]

Card 5/7

Collected Papers (Cont.) SOV/1960

Card 6/7

PHASE I BOOK EXPLOITATION 1178

Andreyev, Pavel Fedorovich; Bogomolov, Aleksey Ivanovich; Dobryanskiy, Aleksandr Flavianovich; and Kartsev, Aleksey Aleksandrovich

Prevrashcheniya nefti v prirode (Conversion of Petroleum in Nature) Leningrad, Gostoptekhizdat, 1958. 416 p. 3,100 copies printed.

Ed.: Dobryanskiy, A.F.; Executive Ed.: Chizhov, A.A.; Tech. Ed.: Yashchurzhinskaya, A.B.

PURPOSE: This book is intended for specialists in geochemistry and petroleum geology.

COVERAGE: The book gives a systematic approach to problems related to the transformations of present-day petroleum deposits as systems of active substances. A.F. Kartsev wrote Chapters I, II and V (pt.1); P.F. Andreyev - Chapters III, IV and V (pt.2), A.I Bogomolov - Chapters VI and VII; A.F. Dobryanskiy - Chapters VIII and IX. References are given at the end of each Chapter.

Card 1/6

Card 2/6

Card 3/6

ANDREYEV, P.F.

Methyl group in the molecules of organic matter scattered through sedimentary rocks. Trudy VNIGRI no.1:202-204 '58. (MIRA 11:12)
(Methyl group) (Petroleum geology)

BOBRYANSKIY, A.F.; ANDREYEV, P.F.; BOGOMOLOV, A.I.

Some regularities of the composition of petroleums. Trudy VNIGRI no.123:12-29 '58. (MIRA 11:12)
(Petroleum)

ANDREYEV, P.F.

Efficient complex of methods for studying kerogen in sedimentary rocks. Trudy VNIGRI no.123:156-167 '58. (MIRA 11:12)

(Rocks--Analysis) (Petroleum geology)

ANDREYEV, P.F.; DVALI, M.F.; SILINA, N.P.

New method of studying scattered organic matter in rocks. Trudy VNIGRI no.123:189-192 '58. (MIRA 11:12)
(Rocks--Analysis) (Petroleum geology)

ANDREYEV, Pavel Fedorovich; GOLOUSHIN, N.S., nauchnyy red.; REGINA, G.M., vedushchiy red.; GENNAD'YEVA, I.M., tekhn. red.

[Characteristics of the organic matter of sedimentary rocks and the problem related to areal oil occurrences] Svoista organicheskogo veshchestva osadochnykh porod i problema regional'noi neftenosnosti. Leningrad, Gos. nauchn.-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. Leningr. otd-nie,1959. 128 p. (Leningrad. Vsesoiuznyi neftianoi nauchn-issledovatel'skii geologorazvedochnyi institut. Trudy, no.134) (MIRA 13:1)

(Petroleum geology) (Organic matter)

ANDREYEV, P.F.

3(5) PHASE I BOOK EXPLOITATION SOV/2362

Akademiya nauk Ukrainskoy SSR. Institut geologii poleznykh iskopayemykh

Problemy migratsii nefti i formirovaniya neftyanykh i gazovykh skopleniy; materialy L'vovskoy diskussii 8-12 maya 1957 g. [Problems of Oil Migration and the Formation of Oil and Gas Accumulations: Materials of the Discussion Held in L'vov, May 8-12, 1957] Moscow, Gostoptekhizdat, 1959. 422 p. 1,100 copies printed.

Eds.: V. B. Porfir'yev, Academician of the Ukrainian SSR Academy of Sciences, and I. O. Brod, Professor; Exec. Ed.: P. R. Yarkov, Tech. Ed.: A.S. Polozina; Editorial Board: I.O. Brod, Professor, M.R. Ladyzhenskiy, and V.B. Porfir'yev, Academician of the Ukrainian Academy of Sciences.

PURPOSE: This collection of articles is intended for a wide range of geologists and research workers interested in oil problems.

COVERAGE: Articles contained in this book deal with the problems of migration and accumulation of oil and gas. These problems were discussed in May 1957 at L'vov State University im. I. Franko at a meeting organized jointly by the Institute of Geology and Mineral Resources, Academy of Sciences of the USSR, the Department of Geology and Oil Exploration of the L'vov Polytechnic Institute, Geolog L'vov Geological Society. Theories on the origin of petroleum deposits and the conditions surrounding their occurrence are treated. There are 327 references: 232 Soviet, 86 English, 5 French, and 4 German.

TABLE OF CONTENTS:

ANDREYEV, P.F.; BIKKENINA, V.V.

Products of destructive oxidation of dispersed organic matter of sedimentary rocks. Trudy VNIGRI no.155:36-44 '60. (MIRA 14:1)
(Rocks, Sedimentary--Analysis)
(Oxidation) (Organic matter)