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C NR: AP7011367 SOURCE CODE: UR/0363/66/002/011/1913	/1920
AUTHOR: Andrianov, K. A.; Kuznetsova, I. K.; Bebchuk, T. S.; Kolchina, A.; Shaipova, I.	
ORG: Institute of Organoelemental Compounds, Academy of Sciences USSR (Institut elementoorganicheskikh soyedineniy AN SSSR)	•
TITLE: Poly(diorganophosphonyl)titanoxane oligomers	
SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 11, 1966, 1913-1920	
TOPIC TAGS: oligomer, organic chemical synthesis, titanium oxide, polymer stability	
SUB CODE: 07	
ABSTRACT: This report examines the synthesis and properties of compounds with the molecular chains Ti-O-Ti framed by different alkyl (aryl) phosphonyl groups. The basis of the synthesis of oligomers with titanoxane chains were reactions of hydrolytic polycondensation of bis(diorganophos- phonyl)dibutyltitanates and reactions of replacement of butoxy-groups in polybutyltitanate with the residues of alkyl(aryl)phosphinic acids. The synthesis of the original titanophosphororganic compounds was accomplished through heating of ortho-butyltitanate with alkyl(aryl)phosphinic and 0931 17547.25	
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## ACC NR: AP7011367

phosphoric acids, taken in 1:2 molar ratio at a temperature of  $130-140^{\circ}$ C. The titanophosphorganic compounds obtained are solid or resinlike products readily soluble in most organic solvents. Investigation of the stability of poly(diorganophosphonyl)titanoxane oligomers to the action of high temperatures in the presence of air oxygen established that thermooxidative destruction up to 450°C occurs chiefly in the direction of the oxidation of organic groups near the phosphorus atom framed by the titanoxane chain. No destruction at the Ti-O-P bond, and also at the Ti-O-Ti bond at this temperature is observed. Destruction of the Ti-O-Ti bond, that is the main chain of the molecule of poly(diorganophosphonyl)titanoxane upon heating oligomers to 800°C was not observed. Orig. art. has: 7 figures, 3 formulas and 6 tables. (JPRS: 40,351)

Card 2/2

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Y PI 0urd 8/12 Ä Mar, J.P. Shihobalary Mar, 15.V. Serkemirrey Tech. Ed.: S.D. Tokoladish Hitarial Baseki S.G. Settes, L.V. Katacor, V.J. Erastor, S.D. Mainistra, L. Prigerenkiy, V.M. Freakho, N.S. Mesnor, and Te.J. Editabergo. 35 This editorium of 95 articles is iswaded for extensions and engineers over a classical statement of the superimental stress enalysis of machine parts and structural moments. Transbather, ".",... The of the Optical Withod for Three tigsting Strees "Matriheilas" Nose Mine Enserstions Constity, M.Y., B.J. Question, and I.F. Lingsteiner. Use of the Optical Polarization Method in thy Visionition of Geological Process Bitailer, L.L. Oytical School for Emericating Sectorilized States of Stress in Fish-Genized Polycrystill Shadalibiya, K.F., and Y.Te. Inchart. Chintle for Studying Electric Deformit of the Sythel Principation Method. oal Misrisstian Method (Cart.) The millerium constains reports preserved at the confirmance on optical instan methods in scenae analysis bid in Phenery 2.3 - 21, 1995, in type and structure by the delepton including representations of the Republic Use of Chars, the Nailah Perpuble Republic, the dorman Democratic Republic to Republic of Confirmation. The reports discuss granted theory includ-he Republic of Confirmation. The reports discuss granted theory includyelabors water, 1960. herr, V.Te., Robaling forwral Cases of Finantic Deformation of La in Diferrentalities Milver Chiorids 11 \_69 \$9 adamity, A.S., Electo Bydilbrim of an Asiaotropic Place Ourse Dimits Core TIL. DESCRIPTION OF HOUSE AND GROUPERLY PROVIDE 6.2 IN THE R POST IN THE PARTY INTERPARTY INTERPA ismootigatian and deservive appare Belations of specific two-dimens ing in shippediding, sicretif fact and a shippediding perclaims machine ที atreast is an 2 ł I ÷ ç And a state of the the Day of Silver wywahenily; trady hoal whod for Stress Anal TYON AGE ę Ĩ A second s ġ BON/NOL2 rature and saterials mained, and three-rigs, engine con-theigs, in similar, a design, in similar, inertaral methanics, place and electronic "2,400 ceptse pristed Ind-w interior in Ľ 8 3 풿 믭 ¥ 8 

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CONSISTENT REPORTALISTICS

	•	Liberman, A. L., Kuznetsova, I. M.,	20-118-5-26/59
	AUTHURS .	Tyun'kina, N. I., Kazanskiy, B. A., Member of the Academy.	
	TITLE:	Stereoisomeric 1-Methy1-2-Alkylcyclohexan	es (Stereoizomernyye
		1-metil-2-alkiltsiklogeksany)	
	PERIODICAL:	Doklady Akademii Nauk SSSR, 1958, Vol. 11 pp. 942-945 (USSR)	8, Nr 5,
	ABSTRACT :	Data on dialkylcyclohexanes of this kind a publications (references 1 - 6). For this vestigation is interesting in spite of gra culties.Certain surprising facts are found h,h,-di-isopropylcyclohexane boils at a la the trans-isomer (reference 5) though acco Auvers Skit the contrary would have been	reason their in= eat experimental diffi= d: the cis_isomer of ower temperature than ording to the rule of
		of this peculiar inversion of the boiling plained and still waits for investigation whether such exceptions are found in the	points remains unex= . In order to find out series of other dial=
	Card 1/3	kylcyclane hydrocarbons, for example amon	g the 1,2-dialkylcyclo=
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20-118-5-26/59

Stereoisomeric 1-Methyl-2-Alkylcyclohexanes

hexanes, the authors synthesized some 1-methyl-2-n-alkylcyclo= hexanes, and separated them according to the stereoisomers. The syntheses were conducted according to a uniform procedure:



with R representing n-propyl, n-hexane, and n-heptyl. According to the results of the fractional distillation all stereoisomers were obtained in a highly pure form. It was proved that the constants of all hydrocarbons thus produced agree with the Auvers-Skit rule. 1-methyl-2-n-hexylcyclohexane and 1-methyl-2-n-heptylcyclohexane have as yet not been mentioned in publications, whereas 1-methyl-2-n-propylcyclohexane was obtained previously as a mixture of sterecisomers (reference 7) only, and not separated further by the mentioned authors. In the experimental part 7 compounds of the respective group are specified, among them one chloride and two bromides, as well as the usual data, are given.

There are 2 figures, 3 tables, and 11 references, 4 of which are Soviet.

Card 2/3

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20-118-5-26/59

Sterecismeric 1-Methyl-2-Alkylcyclohexanes

SUBMITTED: October 18, 1957.

5(3) AUTHORS:	Kazanskiy, B. A., Academician, SOV/20-122-6-19/49 Liberman, A. L., Tyun'kina, N. I., Kuznetsova, I. M.
TITLE:	On the Limited Applicability of the Auwers-Skita Rule in Stereoisomeric Dialkyl Cyclanes (Ob ogranichennoy primenimosti pravila Auversa-Skita k stereoizomernym dialkiltsiklanam)
PERIODICAL:	Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 6, pp 1025-1028 (USSR)
ABSTRACT: Card 1/4	In recent years it was repeatedly noticed that the rule mentioned in the title cannot be applied to 1,3-dialkyl cyclopentanes and 1,3-dialkyl cyclohexanes. In these latter series the interrelation of the properties of cis-and trans- -isomers is reversed. By the example of the stereoisomeric 1,3-dimethyl cyclopentanes and 1,3-dimethyl cyclohexanes this statement was confirmed by thermodynamic data as well as by synthesis. Recently the authors have observed such a case in which a peculiar deviation from the same rule took place (Ref 1) in the 1,4-dialkyl cyclohexane series. In this series the applicability of the rule under consideration was denied by nobody. It became evident that in the case of the
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On the Limited Applicability of the Auwers-Skita Rule in Stereoisomeric Dialkyl Cyclanes 80V/20-122-6-19/49

stereoisomeric 1,4-diisopropyl cyclohexanes the specific weight and the refractive index are higher, the molecular refraction, however, and the melting temperature of the isomer boiling at a lower temperature are lower; the spectroscopic data have shown that the latter isomer is a cis--form. So in this case not the trans- but the cis-form has a lower boiling-point - contrary to the rule mentioned. The observations so far collected make it possible to approach the problem of the relations between the configuration and the physical constants by a new method; the applicability of the rule mentioned is not only restricted by the arrangement of the side chains in the dialkyl-cyclane molecule, but also by the atomic number of carbon in the latter. The authors believe that the deviation described above is a regular phenomenon. The reflections mentioned make it possible to conclude that stereoisomeric 1,4-dialkyl cyclohexanes with 12 or a few more carbon atoms in the molecule must, similar to 1,4-diisopropyl cyclohexane, deviate from the rule under consideration. Thus the Auwers-Skita rule is only applicable

Card 2/4

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On the Limited Applicability of the Auwers-Skita Rule in Stereoisomeric Dialkyl Cyclanes sov/20-122-6-19/49

to the first members of the series of the 1,4-dialkyl cyclohexanes. By studying own data and those mentioned in publications on boiling temperatures of the stereoisomeric dialkyl cyclanes it can be concluded that the linear character of the dependence between the differences in boiling temperature of the stereoisomers and the atomic number of carbon in the molecule is not confined to the 1,4-dimethyl cyclohexane series, but applies also for the 1,2-dialkyl cyclopentanes (Table 2 and line A of Fig 1). In the stereoisomeric 1,2-dialkyl cyclanes discussed here the boiling temperatures of the trans-form increase more rapidly with increasing molecular weight than in the cis-forms. In these cases, however, the Auwers-Skita rule must have a somewhat wider range of applicability than for 1,4-dialkyl cyclohexanes. There are 1 figure, 3 ables, and 10 references, 5 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy, of the Academy of Sciences, USSR)

Card 3/4

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 •	5 (3) AUTHORS:	Kazanskiy, B. A., Liberman, A. L., SOV/62-59-6-19/36 Loza, G. V., <u>Kuznetwova, I. M.,</u> Aleksanyan, V. T., Sterin, Kh. Ye.
	TITLE:	Catalytic Cyclization of n-Octane With Formation of the Homo- logs of the Cyclopentane (Kataliticheskaya tsiklizatsiya n. oktana sobrazovaniyem gomologov tsiklopentana)
	PERIODICAL:	Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 6, pp 1071 - 1078 (USSR)
	ABSTRACT:	By the action of a platinum catalyst n-octane forms the cyclic compounds: 1-methyl-2-ethylcyclopentane and n-propylcyclopen- tane. The present investigation dealt with the cyclization process and the spatial structure of the compounds produced by cyclization. For the purpose of this cyclization n-octane was for five hours passed through platinated coal with a passage rate of 0.2/hour at 310°. Two samples of the catalyst were used in parallel. In contrast to ramificated isomers cyclization of n-octane is fairly difficult. The yield on both catalysts was only 2.2 and 4.5%, respectively. The cyclic product could be enriched by distilling the catalysate. An investigation by means of the Raman spectrum showed that there was trans-1-methyl-2-
	Card 1/3	of the haman spectrum bhowed that

Catalytic Cyclization of n-Octane With Formation of SOV/62-59-6-19/36 the Homologs of the Cyclopentane

ethylcyclopentene in the lower boiling fraction, and n-propylcyclopentene in the residue. The cis-form of the first mentioned compound could not be discovered. Apart from the compounds mentioned, there were still small quantities of 4-me-

thylheptane to be observed. Furthermore, a line (762 cm<sup>-1</sup>) was discovered, which was assigned to the pentalane bicyclo-[0,3,3]octane. This could, however, not yet be proved owing to the difficulties that arise in the production of the pentalane. Since the Raman spectra of the two cyclic compounds obtained are yet hardly known, the single compounds were synthetized in pure form and plotted separately. The synthesis was carried out according to a method which was worked out in the institute mentioned in the Association, with the only difference that instead of aluminum oxide, silica gel was used for isomerisation. In the experimental part the production of the different substances is described in detail. The properties of and the yield in catalysates, obtained from n-octane, are compiled in table 1. Table 2 gives the data concerning the substances produced by distillation. When analyzing the catalysates, distillates,

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SBOCIATION:	nauk SSSR i Komissiya Po	himii im. N. D. Zelinskogo Akademii spektroskopii Akademii nauk SSSR emistry imeni N. D. Zelinskiy of the R, and Committee for Spectroscopy of USSR)
BUBMITTED:	August 15, 1957	
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### CIA-RDP86-00513R000928220006-2

KAZANSKIY, B.A.; DOROGOCHINSKIY, A.Z.; ROZENGART, M.I.; TYUN'KINA, N.I.; KUZNETSOVA, I.M.; LYUTER, A.V.; MITROFANOV, M.T. Aromatization of mixtures of n. hexane with 2-methylpentane, with 3-methylpentane or methylcyclopentane. Izv.AN SSSR.Otd. (MIRA 15:7) khim.nauk no.7:1308-1309 Jl 162. 1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Aromatization) CIA-RDP86-00513R00092822000 **OK RELEASE: 06/19/2000** B117/B186 Zhizhin, C. N., Barinova, Z. B., Liberman, A. L., Kuznetsova, I. M., and Tyun'kina, N. I. Infrared absorption spectra of cis- and trans-isomers of Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 10, 1962, 1263-1266 AUTHORS : 1-methyl-2-N-alkyl cyclohexanes TEXT: Infrared absorption spectrs of five pairs of cis- and trans-isomers of the 1-methyl-2-alkyl cyclohexane series having alkyl radicals TITLE: TEAT: INITATED BOBOTPUION SPECTER OF 11VE PAIRS OF CIS- AND TRANS-1 of the 1-methyl-2-alkyl cyclohexane series having alkyl radicals (CH CH CH CH CH CH AND CH ) were examined and compared with of the 1-methyl-2-alkyl cyclohexane series having alkyl radicals (CH<sub>3</sub>, C<sub>2</sub>H<sub>5</sub>, C<sub>3</sub>H<sub>7</sub>, C<sub>6</sub>H<sub>13</sub>, and C<sub>7</sub>H<sub>15</sub>) were examined and compared with the corresponding Raman spectra (V. T. Aleksanyan, Kh. Ye. Sterin, A. L. Liberman, I. M. Kuznetsov. N. I. Tyun'kins, B. A. Kazanskiy, PERIODICAL corresponding Haman spectra (V. T. Aleksanyan, M. 18. Dierin, A. L. Liberman, I. M. Kuznetsov, N. I. Tyun'kina; B. A. Kazanskiy, Sb. 1 Issledovaniva po eksnerimentalinov i teoraticheskov fizika. A. L. LIDERMAN, I. M. KUZNETBOV, N. L. TYUN'KINB, B. A. ABZENSKIY, Sb.: Issledovaniya Po eksperimental'noy i teoreticheskoy fizike. Pamvati akademika G.'S. Landsberga (Trivestigations in the field of 50.: ISSLEGOVANLYS DO EKSPERIMENTSL'NOY 1 TEORETICHESKOY LIZIKE. Pamyati Akademika G.'S. Landsbergs (Investigations in the field of formemimental and theoretical physics. In memory of Lidedemician G. Pamyati akademika G. S. Landsberga (Investigations in the field of experimental and theoretical physics. In memory of 'Adademician G. S. Landsberg), p. 43, Izd. AN SSSR, M., 1959). The cis- and trans-isomers had been synthesized previously (P. A. Bazhulin, S. A. Ukholin, Card 1/3

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he Co concentration on the alloy surface. In the f the joint by the roentgen-structural analysis a ayer in the joint of the glass with the metal was f the transitional layer was approximately decipt	the presence of a transitional s established and the composition	X
	From the author's summary	
ranslator's note: This is the full translation of	of the original Russian abstract.	

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KUZNETSOVA, I. N., Cand Tech Sci -- "Study of Tech Sci -- "Study o in glass jointh with tungsten, molybdenum, and FERHICO," [Len], 1961. (State Order of Lenin Opt Inst im S. I. Vavilov) (KL, 8-61, 245) - 257 -法学校 •  $\gamma \to \gamma$ 

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FINDIN, A.A.; ZANHAR'YEVSKIY, M.S. [decoased]; <u>MUZNETS(WA, 1.H.</u> Conductance of solutions of a mixture of the two 1,1-olectrolytes with the identical ion, Vast,100 20 no.22:115-121 '65, (WIRA 18:12)


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NOVIKOV, A.N., prof.; KUZNETSOVA, I.P., nauchnyy sotrudnik

Advantages of the combined method of anesthesia in surgery for pulmonary and mediastinal tumors. Vest.khir. 82 no.4: 95-98 Ap '59. (NIRA 12:6)

1. Is Gosudarstvennogo nauchno-issledovatel'skogo onkologicheskogo instituta im. P.A.Gertsena (dir. - prof.A.N.Novikov) Adres avtorov: Moskva, 21-y Votkinskiy proyezd, d.3, Gosudarstvennyy nauchno-issledovatel'skiy onkologicheskiy institut im. P.A.Gertsena.

(AMESTHESIA) (CHEST--SURGERY)

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# KUZNETSOVA, I. P.

Cand Med Sci - (diss) "Intra-tracheal ether-oxygen potentialized /potentsirovannyy/ narcosis in operations dealing with tumors of the lung and mediastinum." Moscow, 1961. 18 pp; (Second Moscow State Medical Inst imeni N. I. Pirogov);250 copies; free; (KL, 5-61 sup, 203)

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NEWS REPORT

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Translation :	15-57-5-6567 from: Referativnyy zhurnal, Geologiya, 1957, Nr 5, p 123 (USSR)
AUTHORS :	Kosyreva, Z. S., Kuznetsova, I. P.
TITLE:	Non-Alite Cement (Bezalitovyy tsement)
PERIODICAL:	Sb. nauch. rabot po khimii i tekhnol. silikatov, Moscow, Promstroyizdat, 1950, pp 70-76.
ABSTRACT:	The possibility has been studied of obtaining a new kind of bonding non-alite cement by the method of P. P. Budnikov. The initial material for producing this cement is bauxite, with a high content of silica or disthene, and also gypsum and chalk. The gypsum was placed in the raw mixture as a mineralizer. The chemi- cal composition of the bauxite and the disthene is given in the accompanying table (in percent). Experi- ments showed that non-alite cement may be produced from
Card 1/2	ments showed that non-alite cement may be produced Al <sub>2</sub> O <sub>3</sub> low-grade bauxite (containing about 24 percent Al <sub>2</sub> O <sub>3</sub> and disthene by roasting a mixture of bauxite, chalk, and gypsum or a mixture of disthene, chalk, and gypsum

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Non-Alite Cement (Cont.)

at temperatures lower than that used for roasting portland cement. The optimum proportion of gypsum is 20 percent of the weight of the dry mix. The optimum temperature for roasting is 1100° to 1200°. The non-alite cement thus produced has satisfactory strength and is sufficiently resistant during year-long contact with active solutions.

Meterial	Si02	A1203	Fe203	CaO	MgO	MnO	SO3	Others	Total
Disthene	49.76	40.42	4.18	0.60	tr	none	tr	2.94	99.64
Bauxite	24.14	33.00	23.35	2.79	2.00	0.01	tr	4.79	100.08

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KUZNE	TSOVA, I.P.
USSR/Chemical !	Fechnology - Chemical Products and Their Application. Silicates. Glass. Ceramics. Binders, I-9
Abst Journal:	Referat Zhur - Khimiya, No 19, 1956, 62362
Author:	Budnikov, P. P., Kosyreva, Z. S., Kuznetsova, I. P.
Institution:	None
Title:	Production of Alite-Free Cement and Study of Its Properties
Original Periodical:	Tr. Mosk. khimtekhnol. in-ta, 1956, No 21, 155-161
Abstract:	Investigated was the possibility of producing good quality cement from low grade bauxites characterized by increased content of silica and Fe oxide. The experiments showed that alite-free cement can be produced from low grade bauxites by calcining the mixture of raw materials, consisting of chalk, bauxite and gypsum, at temperatures lower than those that are required in the case of Portland cement. Optimal calcination temperature of alite-free cement containing added gypsum is 1,200°. It is advantageous to add as mineralizer 30% gypsum and 1% coal. The possibility has been demonstrated of
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USSR/Chemical Technology - Chemical Products and Their Application. Silicates. Glass. Ceramics. Binders, I-9 Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 52362 Abstract: obtaining hydraulic cement consisting eventially of dicalcium silicate, monocalcium aluminate and tetracalcium alumoferrite, having satisfactory binding properties. Card 2/21011111111111 11. To 1 1 1 1 1 1 11202.04

5(1, 2)	so <b>v/</b> 153 <b>-</b> 58	-5-11/28
AUTHORS:	Budnikov, P. P.; Kuznetsova, I. P.	
TITLE:	Multipurpose Utilization of Aluminum Silicate Conta Materials (Kompleksnoys ispol'zovaniye alyumosilika	ining Raw tnogo syr'ya)
PERIODICAL:	Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i k tekhnologiya, 1958, Nr 5, pp 65-69 (USSR)	himicheskaya
ABSTRACT:	The problem mentioned in the title is of national-e interest. A process of this type was devised and in at the Volkhovskiy alguminigevyy zavod (Volkhov Alu (Ref 1). Nepheline raw material is processed into a soda products and portland cement. In the Polish Pe Republic a works department for the production of a from alumina and marl with an increased Al <sub>2</sub> O <sub>3</sub> conte	minum Works) lumina, sople's lite cement ent was built
	at Grazivize on the basis of the investigations of by Gzhimek (Ref 2). The authors of this paper want a process for the simultaneous production of rapid cement and alumina on the basis of loam. They succ double burning. I cam with chalk served as raw mate mixture was burned until 5Ca0.3Al <sub>2</sub> O <sub>3</sub> and 2Ca0.SiO <sub>2</sub>	carried out ed to devise Ly hardening eeded by a rial. The were formed.
Card $1/3$	The latter compound was to promote the decompositi	on of the

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507/153-58-5-11/28 Multipurpose Utilization of Aluminum Silicate Containing Raw Materials burned product (Ref 3) on its cooling and transformation into a y modification. The fine powder produced in this way was leached out by a soda solution and was filtered. The best burning conditions were temperatures at about 1400°, remaining at a temperature for 30 minutes, slow cooling for 10 minutes down to 1200°. The best leaching out conditions were at temperatures of 70°, a ratio between the solid and the liquid phase in the solution of 1 : 5, and a violent stirring for 60 minutes. Aluminum hydroxide was precipitated out from the filtrate containing sodium aluminates by means of CO2. After the removal of sodium aluminate the precipitate (mainly consisting of potassium orthosilicate and calcium carbonate) was burned to produce cement with increased alite content therefrom. The clinker produced under those conditions has a fine orystalline structure; it contains 65-75% alite, 15-20% belite, and 8-12% tricalcium aluminate. Figure 4 shows the chemical analysis of this clinker in per cent. The temperature effect upon the tolerable amount of free limestone in the clinker (which is between 1450 and 1500°) as well as the Card 2/3APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928220006-2"

<ul> <li>Multipurpose Utilization of Aluminum Silicate Containing Raw Materials</li> <li>physico-mechanical properties of the cements produced therefrom are given in table 5. It was petrographically proved th the sintering process of the clinker is completed already at 1450°. The best strength indices during the beginning harden are displayed by a cement from clinker burned at 1450° (Table Figure 1 shows a microphotograph (400 times enlarged) of the alite cement. Figure 2 gives the curves of the dehydration of the alite cement, hydrated for 28 days. There are 2 figures, 7 tables, and 6 Soviet references.</li> <li>ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva (Moscow Chemo-Technological Institute imeni D. I. Mondeleyev)</li> <li>SUBMITTED: October 25, 1957</li> </ul>			SOV/153-58-5-11/26 e Containing Raw Materials
<ul> <li>from are given in table 5. It was perfographicated product the sintering process of the clinker is completed already at 1450°. The best strength indices during the beginning harden are displayed by a cement from clinker burned at 1450° (Table Figure 1 shows a microphotograph (400 times enlarged) of that cement. Figure 2 gives the curves of the dehydration of the alite cement, hydrated for 28 days. There are 2 figures, 7 tables, and 6 Soviet references.</li> <li>ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva (Moscow Chemo-Technological Institute imeni D. I. Mendeleyev)</li> <li>SUBMITTED: October 25, 1957</li> </ul>	Multipurpose (	Julization of Aluminum Diffeet	
Mendeleyeva (Moscow Chemo-Technological Institute Inter D. I. Mendeleyev) SUBMITTED: October 25, 1957		from are given in table 5. It the sintering process of the 1450°. The best strength indi are displayed by a cement fro Figure 1 shows a microphotogr cement. Figure 2 gives the cu alite cement, hydrated for 28 7 tables, and 6 Soviet refere	was petrographically proved at clinker is completed already at ces during the beginning hardening m clinker burned at 1450° (Table 7 aph (400 times enlarged) of that rves of the dehydration of the days. There are 2 figures, nces.
	ASSOCIATION:	Moskovskiy khimiko-tekhnologi Mendeleyeva (Moscow Chemo-Tec	cheskiy institut imeni D. I. Chnological Institute imeni
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BUDNIKOV, P.P.; KUZNETSOVA, I.P. ~ Role of calcium sulfate in obtaining quick-hardening belite-alumina cement based on unconditioned bauxite. Trudy MKHTI no.36:129-134 '61. (MIRA 15:7) (Cement-Testing) (Calcium sulfate) (Bauxite) ٤. . 

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S/137/61/000/011/080/123 A060/A101

AUTHORS: Mikhalev, M.S., Kuznetsova, I.R.

TITLE:

3

Quantitative dependence of the influence of the pearlite component upon the yield strength of low-carbon steel

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 46-47, abstract 11Zh276 ("Byul. nauchno-tekhn. inform. Ural'skiy n.-i. in-t chern. metallov", 1960, No 8, 68-73)

TEXT: An investigation was carried out upon the increase in strength under the influence of the pearlite component in low-carbon steel from a single heat, containing various C contents (0.043, 0.085, 0.16, and 0.24%). The steel was smelted in an induction furnace. The different C contents are obtained by subsequent carbonization of the molten steel in the furnace. 16-kg ingots were subjected to diffusion annealing at  $1100^{\circ}$ C for 20 hours and were forged into 25 x 25 mm bars, which were normalized from the temperature 950°C. In order to obtain various amounts of pearlite, shapes of 12 x 12 x 70 mm were cut out of the rods, heated up to 920 - 940°C and cooled down at various rates

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Quantitative dependence.....

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in quiet air environment, in an air stream, in oil, and with preccoling in water with subsequent cooling in oil. The physical yield-strength was determined by stretching Gagarin-type specimens. It was found that in low-carbon steel the effect produced upon the  $\sigma_{\rm S}$  by increasing the pearlite component, obtained both on account of increasing the C content in the steel and on account of raising the cooling rate of the steel, does not depend upon the degree of the strengthened state of the ferrite base. This conclusion can be apparently in alloying low-carbon steel. As the quantity of the pearlite in the structure by 0.24 kg/mm<sup>2</sup>. There are 10 references.

L. Cordiyenko

[Abstracter's note: Complete translation]

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					8/133/62/00 A054/A127	00/007/013/	/014
THORS :	Mikhalev, M	.S.; Kuzne	tsova, I.R.				
ITLE:	At the Ural (Ural Scien	'skiy nauc tific Rese	chno-issledov earch Institu	atel'skiy ite of Ferr	institut che ous Metals)	ernykh meta	allov
ERIODICAL:	Stal', no.	7, 1962, 6	539				
				ped for use	in buildin	g structur	es,
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EXT: he 1572C rade with	Two new ste (15G2SF) a a baynitic st 0.40 - 0.70% and 0.20 - 0 lowing:	al grades grade with cructure. Si and 0.0 .40% Mo.	were develop a pearlitic The first g 04 - 0.09% V The mechanic	rade contat; the second	1ns 0.12 - 0	18% C, 1.	5 -
EXT: he 15 7 2 C rade with 1.8% Mn, 0.70% Cr re the fol 520SF	Two new ste (15G2SF) a a baynitic st 0.40 - 0.70% and 0.20 - 0 lowing: <sup>5</sup> B kg/mm <sup>2</sup> 55	ol grades grade with cructure. Si and 0.0 40% Mo. $\sigma_{\rm B}$ $c_{\rm B}$ $c_{\rm B}$ $c_{\rm B}$ $c_{\rm B}$ $c_{\rm B}$	were develop a pearlitic The first g 04 = 0.09% V The mechanic 010 ak kgm $\%$ at $+20^{\circ}$ 6 6 2 5	, and the second for the second secon	ins 0,12 - 0 ond contains ies of the n	.18% C, 1. also 0.40 ew steel g	5 - grades
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EXT: he 15 7 2 C rade with 1.8% Mn, 0.70% Cr re the fol 520SF	Two new ste (15G2SF) a a baynitic st 0.40 - 0.70% and 0.20 - 0 lowing: <sup>5</sup> B kg/mm <sup>2</sup> 55	ol grades grade with cructure. Si and 0.0 40% Mo. $\sigma_{\rm B}$ $c_{\rm $	were develop a pearlitic The first g 04 = 0.09% V The mechanic 010 ak kgm $\%$ at $+20^{\circ}$ 6 6 2 5	, and the second for the second secon	ins 0,12 - 0 ond contains ies of the n	.18% C, 1. also 0.40 ew steel g	5 - grades

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S/133/62/000/007/013/014 At the Ural'skiy.... ond to' the hot-rolled or normalized condition. Both grades have to pass the bending test at an angle of 180°. Substitution of the grades for the (T.3 (St.3) grade makes possible a 40 - 45% reduction of the weight of building structures.

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KUZNETSOVA, I.V.

Condition of vascular nerve elements of the tunica vaginalis of the testis in hydrocele. Zdravockhranenie 4 no.5:49-52 S-0 '61. (MIRA 14:11) 1. Is kafedry normal'noy anatomii (zav. defent B.Z.Perlin) Kishinevskogo meditsinskogo instituta. (HYDROCELE) (TESTICLE)

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STATISTICS STATISTICS

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## KUZNETSOVA, I.V.

TRANSPORT NO.

State of the vascular and nerve apparatus of the tunica albuginea testis in varicocele. Zdravcokhranenie 6 no.3: 33-37 Mv-Je<sup>1</sup>63 (MIRA 16:11) 33-37 My-Je'63

1. Iz kafedry normal'noy anatomii (zav. - dotsent B.Z. Perlin) Kishinsvaköge mediteinen instituta. 

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KUZNETSOVA, I. V., Cand Biol Sci -- (diss) "Significance of microdepressions in the formation of soil cover in the northern part of the Yergeney and the utilization of artificial micro-relief in the battle against drought." Moscow, 1960. 19 pp; (Moscow Order of Lenin and Order of Labor Red Banner State Univ im M. V. Lomonosov, Biology-Soils Faculty); 120 copies; price not given; (KL, 22-60, 134)

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Radioactive Isotopes and Nuclear (Cont.) SOV/5592			•
Tech. Ed.: A. S. Polosina.		1	
PURPOSE : The book is intended for engineers and technician dealing with the problems involved in the application of redicactive isotopes and nuclear radiation.			
COVERAGE: This collection of 39 articles is Vol. 4 of the T ticks of the All-Union Conference of the Introduction of the active Isotopes and Nuclear Reactions in the National Eco of the USSR. The Conference was called by the Goudarsty nauchno-tekhnicheskiy komitet Sovet Ministrov SSSR (Sta scientific-Technical Committee of the Council of Minister Scientific-Technical Committee of the Council of Minister the USSR). Academy of Sciences USSR, Gospian SSSR (State J	vennyy ate rs of Planning darstver-		
Committee of the Council of Ministers of the Handy down nyy komitet Scveta Ministrov SSSR po avtomatizatsii i ma stroyeniyu (State Committee of the Council of Ministers USSR for Automation and Machine Building), and the Counci Ministers of the Latvian SSR. The reports summarized in publication 'deal with the advantages, prospects, and	lof		
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	Radioactive Isotopes and Nuclear (Cont.) SOV/5592			
	development of radioactive methods used in prospecting, sur- veying, and mining of ores. Individual reports present the results of the latest scientific research on the development and improvement of the theory, methodology, and technology of radiometric investigations. Application of radioactive methods in the field of engineering geology, hydrology, and the con- trol of ore enrichment processes is analyzed. No personalities are mentioned. There are no references.			
	TABLE OF CONTENTS: Alekseyev, F. A. Present State and Future Prospects of Applying the Methods of Nuclear Geophysics in Prospecting, Surveying, and Mining of Minerals	5		
	Bulashevich, Yu. P., G. M. Voskoboynikov, and L. V. Mizyukin. Neutron and Gamma-Ray Logging at Ore and Coal Deposits Gordeyev, Yu. I., A. A. Mukher, and D. M. Srebrcdol'skiy. The	<b>19</b>		
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Puzyrev, and D. A. Sokolov. Preventive Control of the Boreholes Tool Escape From a Coal Seam While Drilling Inclined Boreholes	260	
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KUZNETSOVA, K.A.

Radioactivit: warning control in the boring of directional boreholes with the TB-3 turbodrill, rudy VNIIPodzemgaza no.12:126-128 '64. (MIRA 18:9)

1. Laboratoriya kontrolya i avtomatiki Vsesoyuznogo nauchno-issledo-vatel'skogo instituta podzemnoy gazifikatsii ugley.

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KUZNETSOVA, K.A., insh. "Consumption of molasses for sole leather filling." Leg. prom. 18 no.4:42 Ap '58. (NIRA 11:4) no.4:42 Ap '58. (HIRA (Holasses) (Leather industry--Equipment and supplies) . APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928220006-2"

CIA-RDP86-00513R000928220006-2

s/081/62/000/012/056/063 B158/B101 Yevdokimov, F. K., Kavos, Kh. V., Kuznetsova, K. B. AUTHORS: Paint and varnish coats for electric measuring instruments TITLE: used in various climatic conditions • Referativnyy zhurnal. Khimiya, no. 12, 1962, 607-608, abstract 12P239 (Lakokrasochn. materialy i ikh primeneniye, PERIODICAL: .. no. 6, 1960, 42-45) TEXT: An investigation was made into the dependence of the wearability of various paint and varnish coats (PC) for electric measuring instruments on the effect on them of the atmosphere, preparation of the bare metal surface, the composition of the primer and the colour of the PC itself. The surface of the samples of steel, brass, Silumin and aluminum was cleaned by sandblasting before painting, and in addition to this the Silumin samples were treated with bakelite varnish and the aluminum samples were anodized. The samples were painted by spraying; the PC thickness was 50-55µ. Tests on the PC were carried out in a hydrostat at 20-50 °C and at an atmospheric relative humidity of  $\sim$ 100%; in a solar Card 1/3A 00 <sup>- 4</sup>3 

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S/081/62/000/012/056/063 Paint and varnish coats for electric B158/B101 radiation chamber at an ultraviolet intensity of 0.06-0.08 cal/cm <sup>2</sup> /min and at 40-45°C; under natural conditions on stands in Leningrad and Batumi and under conditions simulating a tropical climate - in a tropical hothouse. The PC wearability was evaluated visually by the methods of GIPI-4 and VNIIEP. It was found that the best primers with different surface preparation and different topcoat enamels are Ar-10c(AG-10s), followed by $\phi_{\ell} - 03K$ (FL-02K) and $\phi_{\ell} - 03K$ (FL-02L) primers. Of the topcoat enamels, those developed and recommended for use are: for instruments used in enclosed heatable spaces at $\leq 35^{\circ}$ C and a relative humidity of $\leq 80\%$ (at $30^{\circ}$ C) - alkyd No.200 black and grey, 2086‡ (2086f), A-14‡ (A-14f), A-12‡ (A-12f), $3KP-7$ (EKR-7), $TI$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$	
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77659 5.3400,5.1320 sov/80-33-2-34/52 Belikova, N. A., Vol'faon, L. G., Kuznetaova, K. B., AUTHORS: Mel'nikov, N. N., Person, A. I., Plate, A. F., Pryanishnikova, M. A. Concerning the Isolation of Aldrin and Dieldrin TITLE: Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 2, PERIODICAL: pp 454-463 (USSR) The article describes the synthesis of aldrin and dieldrin based on information gathered from ABSTRACT: foreign patent literature and on the authors' studies of the basic reaction of hexachlorocyclopentadiene with bicyclo-(2,2,1)-heptadiene-2,5. The latter was synthesized in a continuous flow installation, according to the reaction: Card 1/6

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Concerning the Isolation of Aldrin and Dieldrin 77659 sov/80-33-2-34/52

The optimum conditions for the above condensation of cyclopentadiene with acetylene were: molar ratio 1:1.1 to 1:2; temperature 345° C; pressure 20 atm. The yield of bicycloheptadiene under those conditions was about 48% and dropped sharply with rising temperature. The spent gas contained 95-97% acetylene and could be recycled. Investigation of the thermal stability showed that bicyclo-(2,2,1)-heptadiene-2,5 remained unchanged at 290° C, but under the conditions of the reaction it reacted with one cyclopentadiene molecule:



At  $340^{\circ}$  C and above, bicycloheptadiene was isomerized into cycloheptatriene; at  $390^{\circ}$  and 8 atm the extent of isomerization reached 20%, and a small amount of

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toluene (1%) was also formed.

The conditions governing the direction of the reaction of bicycloheptadiene with hexachlorocyclopentadiene in the synthesis of aldrin were investigated.

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Concerning the Isolation of Aldrin and Dieldrin

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condensation of bicycloheptadiene with hexachlorocyclopentadiene; (4) steam distillation of the excess bicycloheptadiene; (5) separation of aldrin from water; (6) separation of bicycloheptadiene from water and returning it to the condensation stage (1). The steam-distilled bicycloheptadiene was 95% recovered and could be used again without any further purification. Dieldrin was obtained on oxidation of aldrin by means of 3-fold excess of 27% hydrogen peroxide in 80% acetic acid at  $100^{\circ}$  C. Dieldrin thus obtained had mp  $100-130^{\circ}$  C. The content of dieldrin in the technical product was about 80%

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Concerning the Isolation of Aldrin and Dieldrin

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Some experimental work was done by G. A. Tarasova at the Institute of Organic Chemistry, Academy of Sciences, USSR. Determination of combustion temperatures was made by M. P. Kozina and S. M. Shtekher at the Luginin Laboratory of Thermochemistry of Lomonosov Moscow State University. Cyclopentatriene analysis was made by M. Ye. Vol'pin at the Institute of Element-Organic Compounds, Academy of Sciences, USSR. There are 4 figures; 1 table; and 23 references, 9 U.S., 2 U.K., 1 Canadian, 1 Indian, 2 Swiss, 1 East German, 7 Soviet. The 5 most recent U.S. and U.K. references are: Handbook of Aldrin, Dieldrin, and Endrin Formulations, Shell Cnemical Corp. (1954); J. Hine, J. A. Brown, L. H. Zalkow, W. E. Gardner, M. Hine, J. Am. Chem. Soc., 77, 3, 594 (1955); R. E. Lidov, U. S. Pat. 2635977, 21.IV.1953; B. Soloway, U.S. Pat. 2676131, 2.V.1954; R. E. Lidov, S. B. Soloway, Brit. Pat. 692547 (1954).

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TRUESSATISTICS

June 25, 1959

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S/276/63/000/002/029/052 A052/A126 Okhrimenko, I.S., Yakovlev, A.D., and Kuznetsova, K.B. AUTHORS: Paint compositions and coatings on chlorosulfurized poly-TITLE: othylene base PERIODICAL: Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no. 2, 1963, 107, abstract 2B574 (Lakokrasochn. materialy i ikh primeneniye, no. 4, 1962, 25-30) The results of investigations of paint compositions and coat-TEXT: ings on chlorosulfurized polyethylene base(containing 26.5-27.6% Cl and 1.7-2.5% S)are reported. It is shown that on chlorosulfurized polyethylene base paint compositions of solution and organodispersion types can be produced. It is advisable to use chlorosulfurized polyethylene in paint compositions in combination with other resins, whereby glycerin ester of colophony (it can be added to up to 50% of film-former weight) has a good modifying effect. In view of the acidity of chlorosulfurized polyethylene it is recommended to add to compositions based on it inert pigments (titanium dioxide and others); as structural additions it is advisable to use diphe-Card 1/2

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AND WHEN PROPERTY

s/276/63/000/002/029/052 Paint compositions and coatings ... A052/A126 nylguanidine and some metal oxides in the presence of which the film-former passes into an insoluble state without heating. It is pointed out that coatings on chlorosulfurized polyethylene base have a low steam permeabili-ty, corrosion resistance in water, acids (nitrio, sulfuric) and other chemical substances, as well as when used in the atmosphere and under conditions of natural and artificial agoing. On account of their properties these coatings can be recommended for protecting the equipment of chemical and other industries. (Abstracter's note: Complete translation.) Card 2/2APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928220006-2"

THE FORMER STORES

DANILOVA, L.I.; inzh.; OSIPOVA, V.P.; kand.khim.nauk; POKHLEBALOVA, L.P.; -KUZNETSOVA, K.D.

Clarification of liquid perfumes with the aid of the SGL separator. Masl.-zhir.prom. 27 no.3:37-39 Mr 161. (MIRA 14:3)

 Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv (for Danilova,Osipova).
 Fabrika "Novaya Zarya" (for Pokhlebalova). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskogo mashinostroyeniya (for Kuznetsova).

(Perfumes) (Separators (Machines))

APPROVED FOR RELEASE: 06/19/2000

s/137/62/000/002/036/14/ A006/A101 Koval'skiy, A. Ye., Pivovarov, L. Kh., Kuznetsova, K. F. AUTHORS : The effect of technological factors of manufacturing sintered car-TITLE : bides on changes in tungsten carbide radiographs PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 28, abstract 20224 ("Sb. tr. Vses. n.-1. in-t tverdykh splavov", 1960, no. 2, 105-108) On the surface of WC-Co sintered carbide specimens the authors TEXT: revealed abrupt changes in the relative intensity of a series of X-ray diffraction lines of WC; a particularly high increase is observed in the intensity ratio of line pairs (0002)/(110) and (001)/(101). The effect of changes is sensitive to heterogeneity of specimens in the same grade of carbide and under the same sintering conditions. It is practically constant at changes in the Co-content from 6 to 15%; a further increase of the Co content causes a sharp rise of the effect. The effect is a function on the sintering temperature [for BK 6 (VK6) and BK 15 (VK15), it increases with temperature, and drops for BK 20 (VK20)]. This effect depends also on the duration of grinding the initial mixtures, the temperature of reduction and carburizing, and does not depend on Card 1/2

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The effect of technological factors ...

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additional annealing which entails decomposition of Co of the solid solution. It is stressed that these changes in the relative intensity become rather noticeable only on the specimen surface; it is 0.5 for VK6 and 1.7 for VK20. After removal of the surface layer to 0.1 mm depth or etching off the Co phase, the (002)/(110) ratio drops to a magnitude which corresponds to pure WC.

I. Brokhin

[Abstracter's note: Complete translation]

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用词题

KUZNETSOVA, K.F. 82635 1 and 1 5/126/60/010/02/005/020 18.1230 18.8100 E111/E352 Funke, V.F., Shurshakov, A.N., Yudkovskiy, S.I., Kuznetsova, K.F., Shulepov, V.I. and Yurkevich, Yu.N. AUTHORS: Electrical Resistance and Structure of WC-Co Alloys Fizika metallov i metallovedeniye, 1960. Vol. 10, TITLE: PERIODICAL: No. 2, pp 207 - 215 Two-phase WC-Co alloys consist of hard, brittle tungsten-carbide grains and a cobalt-base plastic phase. Some TEXT: workers consider that a continuous carbide "skeleton" exists (Ref. 1) and others (Ref. 2) that there is a continuous film of cobalt in alloys with over 2% weight Co. In the present work measurements of electrical conductivity were made to settle this point. Two-phase alloys with 0-100% were prepaged by powdermetallurgy methods. Specimens were heated at 1 200 °C for 1.5 hours in hydrogen. Some were then cooled at 80 °C/hour to room temperature; others were quenched in oil at 20 °C. Fig, 1 shows specific conductivity as a function of cobalt concentration for quenched (Curve 1) and annealed (Curve 2) specimens. Plots of resistivity against temperature are shown in Fig. 2. X-ray examination was carried out (with type RKD and Card 1/3 

## CIA-RDP86-00513R000928220006-2

82635 s/126/60/010/02/005/020 E111/E352 Electrical Resistance and Structure of WC-Co Alloys URS-50 cameras) with cobalt radiation to find the alloy structure and the cobalt lattice dimension (the latter is shown as a function of WC weight % in Fig. 3). Another series of alloys with the same cobalt content (6% by weight) but different tungsten-carbide grain size (about 0.8 - 2.2  $\mu$ ) was prepared and tested. Fig. 4 shows resistivity for annealed alloys as functions of coercive force (Curve 1) and of grain size (Curve 2): the relations obtained confirmed the conclusions from the other work, that there is a continuous layer of cobalt in alloys of this composition. The work showed that 0.5% Co is sufficient to break continuity of contact between carbide grains. No solubility of cobalt in carbide up to the eutectic melting point; eutectic transformation occurred at 1250 °C; solubility of eutectic transformation occurred at 1200 C; solubility of carbide in cobalt was 12-13 weight % at 1200 C. The reported (Ref. 11) loss in plasticity of the cobalt layer the authors attribute to lattice distortion at the cobalt/tungsten-carbide boundary surface. There are 4 figures, 2 tables and 11 references: 6 Soviet, 4 English and 1 German. Card 2/3

APPROVED FOR RELEASE: 06/19/2000

82635 S/126/60/010/02/005/020 Electrical Resistance and Structure of WC-Co Alloys ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut (All-Union Cermets Scientific-Research Institute) SUEMITTED: January 6, 1960 V

APPROVED FOR RELEASE: 06/19/2000

FUNKE, V.F.; YUDKOVSKIY, S.I.; Prinimali uchastiye: KUZNETSOVA, K.F.; CHERENKOVA, V.A.
High temperature oxidation of alloys formed by titanium boride with iron group metals. Zhur.fiz.khim. 37 no.7:1557-1562 J1 '63. (MIRA 17:2)
1. Vsesoyuznyy nauchno-issledovatel'skiy institut tverdykh splavov.

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ACCESSION NR: AP4029208 S/0226/64/000/002/0057/006	0
AUTHOR: Tumanov, V. I.; Funke, V. F.; Trukhanova, Z. S.; Novikova, T. A.; Kuznetsova, K. F.	
TITLE: Heat treatment of tungsten carbide-cobalt alloys	•
SOURCE: Poroshkovaya metallurgiya, no. 2, 1964, 57-60	•
TOPIC TAGS: tungsten carbide, cobalt, heat treatment, carbon, tungsten, tungsten arbide based alloy, cobalt containing alloy, binding phase	
BSTRACT: In this paper the authors present the results of studies of the effect of the cooling rate on the composition of the binding phase and the bending strength of sungsten carbide-cobalt alloys. The effect of the cobalt content is plotted in raphs. The authors draw the following conclusions: 1) the composition of the inding phase does not, in practice, depend on the cooling rate within the investi- ated temperature range, and 2) in the examination of the dependence of the bending trength on the composition of tungsten carbide-cobalt alloys, it is also necessary o consider the change of thermal stresses. Orig. art. has: 3 figures.	E transformer E transformer E transformer Transformer
SSOCIATION: Vsesoyuzny*y nauchno-issleovatel'skiy institut tvordy*kh spalvov All-Union Scientific Research Institute of Solid Alloys) and 1/21	
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KUZNETSOVA, KEF 100 L\_44225-65 EWP(0)/EWT(m)/EWP(w)/EPF(0)/EPF(n)-2/EWA(d)/T/EWP(t)/EWP(t)/ EWP(z)/JWP(h)\_\_\_PE-4/Pu-4\_\_\_IJP(c)\_\_,JD/JQ/WB\_\_\_ UR/0226/65/000/004/0035/0043 ACCESSION MRI AP5010402 4 Authon: Kreymer, G. S.; Turnov, V. T.; Alekseyeva, M. A.; Pavlova, Backin, H. L.; Kiznetsova, K. F. B TITLE: Effect of the addition of tantalues carbide on the properties of hard pordered-metal/WC-TIC-Co alloys 21 21. SCURCKi Poroshkovaya metallurgiya, no. 4, 1965, 35-43 TOPIC TAGE: hard alloy, tantalum carbide, cementing phase, titanium carbide, tungsten carbide, cobalt, bending strength, carbide crystals, brittle fracture, alloy sintering, scaling resistance ABSTRACT: While the addition of some quantity of tantalum carbide to the hard alloys WC-TIC-Co is a widespread practice, its effect on the properties of these alloys is disputed by different investigators. To clarify this question, the authors carried out a series of tests with specimens of these alloys containing different proportions of TaC. On the basis of metallographic analysis of the melts, investigations of bending strength of specimens as a function of the mojar Cord\_1/12 The second s 5 的自己的

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<b>, ,</b>	) L_44725-65		
	ACCESSION MR: AP5010402 content of TaC in the solid-solution phase of (Ti, Ts, W)C, hardness tests, imp toughness tests, and other tests, the positive value of the addition of tantalus carbide to WC-TiC-Co alloys is definitely established. Such an addition increas the bending strength (at moderate temperatures), hardness (at high temperaturess heat resistance, and scaling resistance of these alloys. It is shown that in the region of brittle fracturel of WC-TiC-TaC-Co alloys the relation of bending strength to the volumetric content of cobalt is satisfactorily described by the equation $\sigma^2 = AZC$ , where $\sigma$ is the breaking point, E is the elastic modulus, C is the cob- content, and A is a constant. Observations under the microscope confirm that if fracturing crack spreads through the cementing phase (and phase boundaries), by passing the carbide grains. Further, it is shown that the introduction of tanta carbide into WC-TiC-Co alloys markedly alters the composition of the cementing phase, which in itself may be a factor in the increase in its strength and the strength of the alloys. The latter may also be enhanced by the imprevenant in w-ttability of carbide crystals by the molten cementing phase during the sinter: process. Orig. art. hast 8 figures, 7 tables. ABUUCIATION: Vsecovierby mauchro-insided end Alloys)	a agth	
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SO: Letopis' Zhurnal'ynkh Statey, Vol. 50, Noskva, 1949

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The genus Planularia and its new species from the upper Jurassic of the Russian Platform. Paleont.shur. no.2: 17-34 60.

1. Geologicheskiy institut Akademii nauk SSSR. (Russian Platform--Foraminifera, Fossil)

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Genus Saracenaria and its representatives from the Upper Jurassic of the Russian Platform. Vop. mikropaleont. no.6:73-89 <sup>1</sup>62. (MIRA 15:11)

1. Geologicheskiy institut AN SSSR. (Ressian Platform-Lagenidae, Fossil)

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