VOYDVITHENSKIY, G.S.; GUDIN, N.V.; SHAPNIK, M.S.; GARIF'YANOV, N.S.; IL'YASOV, A.V.

Electron paramagnetic resonance study of the electrode processes of copper complexes with organic amino derivatives. Zhur. fiz. khim. 38 no.6:1682-1685 Je '64. (MIRA 18:3)

1. Kazanskiy khimiko-tekhnologicheskiy institut imeni Kirova i Institut organicheskoy khimii AN SSSR, Kazan'.

VOZDVIZHENSKIY, G.S., prof.; GUDIN, N.V.

Second scientific and technical conference on the theory and practice of the use of nontoxic electrolytes in electrolytic metallurgy. Zhur.VKHO 10 no.1:94-96 '65.

(MIRA 18:3)

VOZDVIZHENSKIY, G.S.; GUDIN, N.V.; SHAPNIK, M.S.; IL'YASOV, A.V.; GARIF'YANOV, N.S. (Kazan')

Electron paramagnetic resonance study of electrode processes in aqueous solutions of copper complexes. Zhur. fiz. khim. 39 no. 1: 64-67 Ja '65 (MIRA 19:1)

1. Institut organicheskoy khimii AN SSSR, Kazan'. Submitted January 10, 1964.

TIKHONOV, V.I., mekhanik; GUDIN, P.Ya., mekhanik

Steam-air and hydraulic hoists. Neftianik 1 no.12:23-25 D '56. (MIRA 12:3)

1. Novokuybyshevskiy neftepererabatyvayushchiy zavod.
(Hoisting machinery)

GUDIN, Sergey Andreyevich; GOLOYAN, M.A., redaktor; LEONEVA, N.V., tekhnicheskiy redaktor

[Mobile radio repair shop] Peredvizhnaia radioremontnaia masterskaia Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1956. 9 p. (Radio--Repairing) (MLRA 9:9)

SKVORTSOV, S.O., inzhener; GUDIN, Ya.Ya., inzhener.

Increasing the yield of formalin at the Vetluzhskiy wood-chemical combine. Der.i lesokhim.prom. 3 no.3:24-26 Mr '54. (MLRA 7:3)

1. TsNILKhI (for Skvortsov). 2. Vetluzhskiy lesokhimicheskiy kombinat (for Gudin). (Vetluzhskiy--Formaldehyde)
(Formaldehyde--Vetluzhskiy)

GUDIN, YA. YA.

Multifold utilization of steam. Ya. Ya. Gudin. *Gidroliz i Lesokhim. Prom.* 10, No. 1, 20(1957).—At the Vetlugo Wood-chem. Combine, oleoresin is distd. by recycling steam 3 times through coils in retorts. T. Iurzin

Gudina, A.M.

A yeast technique for measuring the activity of tissue growth-stimulating substances. L. I. Palladina and A. M. Gudina (Inst. Biochem., Acad. Sci. Ukr. S.S.R., Kiev). *Ukrain. Biokhim. Zhur.* 22, 37-8(39-40, in Russian)(1950). —The centrifugation method has usually been used to det. yeast growth in normal fermentation and under influence of substances, whereby centrifugation is carried out in a graduated tube with no precaution taken to stop the yeast fermentation before the detn. This makes the method inaccurate, and inapplicable for small amts. of yeast. A micro method was developed wherein (1) fermentation is interrupted by NaF added before centrifuging, and (2) tubes with attached capillary are used for centrifugation. Procedure: the usual bakers' yeast was powd., and dried at room temp. on a filter. Nutrient medium: 10 g. glucose, 0.2 g. of ammonium phosphate (mono), 0.01 g. KCl dissolved in 100 ml. tap water, and the medium poured into vessels, 3 cm. diam., 1 cm. in height, in 3-ml. portions. Then 200 mg. of dry yeast powder was shaken in 15 ml. distd. water and 1-ml. amts. transferred to the vessels, stirred, covered, and left 24 hrs., at 18-20°. After that 1 ml. of test soln. or a control of NaCl soln. was added. After 24 hrs., contents were stirred, aliquots pipetted into the centrifuge tubes and the attached capillary sealed off with paraffin. Solid NaF was added before centrifuging and the yeast column measured in mm. and compared with the control.

Clayton F. Holoway

1

PALLADINA, L.I.; HUDINA, A.M.

Nature of activating substances in extracts from preserved skin from corpses; report no.1. Role of arginine in the regeneration of tissues. Ukr.biokhim. zhur. 24 no.4:487-498 '52. (MLRA 6:11)

1. Instytut biokhimiyi nauk Ukrayins'koyi RSR.
(Arginine) (Regeneration (Biology)) (Tissues)

PALLADINA, L.I.:GUDINA, A.M.

Certain data on nature of biogenic stimulators. Doklady Akad. nauk SSSR 87 no. 2:249-252 11 Nov 1952. (CLML 23:5)

1. Presented by Academician A. I. Oparin 12 September 1952. 2. Institute of Biochemistry of the Academy of Sciences Ukrainian SSR.

USSR/Medicine - Tissue Therapy Mar 53

"The Nature of Effective Substances in Extracts From the Preserved Skin of Corpses: II. The Activating Effect of Ammonia in Processes of Tissue Regeneration," L. I. Palladina, A. M. Gudina, Inst of Biochem, Acad Sci Ukr SSR, Kiev

Ukrain Biokhim Zhur, Vol 25, No 1, pp 97-105

Prior investigations have shown that an essential factor in the skin of corpses preserved acc to Filatov is arginin, which expedites healing. Results obtained in this instance indicate that ammonia

251T53

and substances that form ammonia also have a healing effect. This checks with published data on the nature of the healing effect produced by maggots when they are used for treating wounds.

251T53

Jun 53

USSR/Medicine - Tissue Therapy

"The Nature of Active Substances in Extracts From the Preserved Skin of Corpses. III. The Effect of Some Salts on the Activating Role of Ammonia in Processes of Tissue Regeneration," L. I. Palladina, A. M. Gudina, Inst of Biochem, Acad Sci Ukrainian SSR

Ukrain Biokhim Zhur, Vol 25, No 2, pp 132-139

It was mentioned in earlier reports that ammonia as well as arginin is an active ingredient found in extracts of the skin of corpses. It was established in the present instance that certain salts increase the

254T33

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therapeutic action of ammonia. On the basis of these findings, the LP soln (3.0 g of ammonium carbonate + 1.5 g magnesium sulfate + 1.6 g of calcium chloride + + 0.8 g of monosubstituted potassium phosphate per 1 liter of distilled water) was formulated. In expts and clinical tests, LP soln proved to be effective in expediting the healing of wounds and burns.

254T33

GUDINA, A. M.

"A Study of Purine Metabolism During Muscular Work." Cand Biol Sci, Inst of Biochemistry, Acad Sci Ukrainian SSR, Kiev, 1954. (RZhBiolKhim, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUM No. 556, 24 Jun 55

GUDINA, N. M.

USSR

The nature of active substances in the extracts of skin of cadavers. IV. The mechanism of action of biogenic stimulators. L. I. Palladina and A. M. Gudina. *Ukrain. Biokhim. Zhur.* 26, 444-51(in Russian; 481-3)(1954); cf. *C.A.* 47, 12038b.—NH_4 ions activate the process of tissue growth and repair and enhance the process of glycolysis and oxidation in tissues. Prepn. LP described in above reference and exts. of preserved skin of cadavers also stimulate glycolysis. The role played by NH_4^+ in the transfer of P from phosphopyruvic acid to the adenylic acid system was studied. Upon the utilm. of phosphoglyceric acid this phosphorylase reaction is accompanied by an increase in pyruvic acid and, owing to a rapid dephosphorylation of adenosinetriphosphoric acid, inorg. P accumulates. NH_4^+ enhanced the rate of P transfer as above described. The presence of $(NH_4)_2CO_3$ increased the power of liver tissue to reduce methylene blue and its oxidative process. Other phases are described of the beneficial effect of biogens and NH_4^+ on the growth and repair processes of the body tissues. It is concluded that the role played by NH_4^+ and biogenic stimulators is inherent in the nature of their reactivity with metabolic processes of the organism.

B. S. Levine

GUDINA, A. M.

5491. Influence of components of tricarboxylic cycle on regeneration and dehydrogenase activity of tissues. L. I. Palladin and A. M. Gudina *Ukrain. biokhim. Zh.*, 1956, 28, 69—78; *Referat. Zh. Biol. Khim.*, 1956, Abstr. No. 16560.—Lotions of 1% Na citrate speeded up healing of experimental wounds in rabbits, and in combination with Na succinate raised the dehydrogenase activity of the granulation tissue of the healing wounds (increased reduction of Methylene Blue). Addition of Na citrate and succinate also raised the dehydrogenase activity of regenerating liver. Similar results were obtained *in vivo*. (Russian) T. R. PARSONS

Gudina, A. M.

The metabolism of purine-containing substances in animals subjected to fatigue-producing work. A. M. Gudina (Inst. Biochem., Acad. Sci. Ukr. S.S.R., Kiev). *Ukrain. Biokhim. Zhur.* 28, 217–21 (Russian summary, 222) (1956).—A study was made of the N of the purines of nucleotides, nucleosides, and of free purine and of the total N of purine fractions in muscle tissues and of the N of purines, allantoin, and total N in the urine. Male rabbits were used in the expts. Fatigue of the biceps of the thigh was induced by elec. stimulation and fatigue of the whole animal by prolonged exercise in a squirrel cage. Muscle fatigue is accompanied by hydrolysis of the muscle nucleotides and the formation of nucleosides and free purines. In the urine of work-fatigued whole animals there occurs a sharp rise of the purines and of allantoin. The ratio of purine and allantoin N to the total N in the urine also rises. G. concludes that in the work-fatigued muscle there is evidence of the breakdown of nucleotides and the corresponding accumulation of decompn. products. B. S. Levine

GUDINA, A.M.

The effect of substances of the tricarboxylic acid cycle on the oxidative processes of regenerating tissues. L. I. Palladina and A. M. Gudina (Inst. Biochem., Acad. Sci. Ukr., S.S.R., Kiev). *Ukrain. Biokhim. Zhur.* 28, 2[0-30(Russian summary, 330-7)(1956); cf. *C.A.* 50, 9511[-A study was made of the effect of Na salts of succinic (I), citric (II), malic (III), and fumaric (IV) acids on the respiration of normal and regenerating tissues of the liver of the rat. I, II, III and IV were added to the homogenates of small portions of liver tissue removed from normal rabbits and at intervals to homogenates of liver tissues removed from the same rats as the process of liver tissue regeneration progressed. The respiration intensity of the homogenates of the original and of the regenerating liver tissues were compared. The methods used in extirpation of liver portions and regeneration stimulation employed were the same as previously described (loc. cit.) The rate of O absorption by the test homogenates was determined manometrically. The rate of respiration in regenerating liver tissues was below that of normal tissues indicating, as was shown previously, that in regenerating liver tissues the anaerobic type of respiration (augmented glycolytic process) prevails. In the study of the effect of substances of the tricarboxylic acid cycle on the rate of O absorption by liver tissue it was shown that the addn. of I to the homogenate of normal liver tissues in all tests raised the rate of respiration and to a higher degree in the case of regenerating tissues. P. and G. assume this to be due to an increased activity of succinic dehydrogenase in the regenerating liver tissues. The addn. of I activates the oxidation-reduction system of regenerating liver tissues. The addn. of II lowered the respiration rate of both types of liver tissues, but to a lesser degree in the regenerating tissues. The addn. of III stimulated the process of respiration of the regenerating tissue only, and only to a slight degree.

H. S. Levant

GUDINA, A. M.

2

Effect of some products of tissue autolysis on the processes of degeneration. L. I. Palladina and A. M. Gudina (Inst. Biochem., Acad. Sci. Ukr. S.S.R., Kiev). *Ukrain. Biokhim. Zhur.* 28, 442-8(Russian summary, 449-50) (1956); cf. *ibid.* 24, 487 (1952); *C.A.* 47, 12637i, 12638a; 50, 9551i.—In the process of autolysis the following substances are formed: adenosine, guanosine, adenine, guanine, hypoxanthine, xanthine, uric acid, adenosinetriphosphoric acid (ATP) and adenylic acid. To varying degrees these substances accelerate the proliferation of yeast cells, especially ATP, xanthine, and uric acid. In healing exptl. wounds in the rabbit ATP, adenylic acid, guanosine, adenine, and guanine augment the epithelization of the wounds. The addn. of adenine, guanine, hypoxanthine, and ATP to the homogenates of granular tissue in all cases increases the power of granulation to reduce methylene blue. A study was made of the effect of ATP, adenylic acid, hypoxanthine, adenine, guanine, xanthine, and uric acid on the oxidation-reduction processes of the regenerating tissues. ATP, adenylic acid, and hypoxanthine raise the dehydrogenase activity of the liver; xanthine and uric acid lower the rate of methylene blue reduction by the liver tissue. This may be due to the fact that such substances in themselves can act as H acceptors. The addn. of ATP, adenylic acid, adenosine, adenine, guanine, hypoxanthine, xanthine, and of uric acid raises the capacity for O absorption of the normal and regenerating liver tissue. The greater part of the substances studied, contg. purine derivs. or purine bases, stimulate the growth of yeast cells and of regenerating tissue and also increase the rate of oxidation-reduction processes during tissue regeneration. This is due to the fact that purine-contg. substances and purine bases can be utilized for the synthesis of nucleic acid and, as sources of coenzyme formation, can stimulate tissue cell metabolism and thereby tissue growth.

B. S. Levine

USSR/Human and Animal Physiology. Metabolism. T

Abs Jour: Ref Zhur-Biol , No 8, 1958, 36168.

Author : Gudina, A.M
Inst :
Title : The Effect of Sodium Citrate on the Metabolism of Purine Containing Compounds During Exhausing Muscular Work in Animals and Men.

Orig Pub: Ukr. biokhim. Zh. 1957, 29, No 1, 71-78.

Abstract: The values of free purines, nucleozide and nucleotide purines, as well as ATP contents of muscles of rabbits during work and in controls were determined. Exhausting work was associated with increased breakdown of nucleotides and ATP Preliminary injection of the animals with 250 mg of sodium citrate in doses of 250 mg/

Card : 1/2

PALLADINA, L.I.; GUDINA, A.M.

Enzymatic processes in the liver during regeneration [with summary in English]. Ukr.biokhim.zhur. 30 no.6:865-879 '58. (MIRA 11:12)

1. Institut biokhimii AN USSR, Kiyev.
(REGENERATION (BIOLOGY)) (LIVER) (ENZYMES)

PALLADINA, L.I.; GUDINA, A.M.

Influence of adenosinetriphosphoric and adenylic acid on the regeneration of tissues and on the oxidation-reduction processes in regeneration. Vrach.delo no.10:1053-1055 O '59. (MIRA 13:2)

1. Institut biokhimii Akademii nauk USSR.
(ADENOSINETRIPHOSPHORIC ACID) (ADENYLIC ACID) (REGENERATION (BIOLOGY))

PALLADINA, L.I.; GUDINA, A.M. [Hudyna, A.M.]

Effect of substances containing purines and purine bases on oxidation-reduction processes in a regenerating liver. Ukr. biokhim.zhur. 31 no.3:414-421 '59. (MIRA 12:9)

1. Institute of Biochemistry of the Academy of Sciences of the U.S.S.R., Kiyev.
(PURINES) (OXIDATION, PHYSIOLOGICAL) (REGENERATION (BIOLOGY))

PALLADINA, L.I.; POPOV, K.S.; GUDINA, A.M.; GRECHINSKAYA, Ye.V. [Hrechyns'ka, IE.V.]

Biologically active substances in Soviet champagne and wine products. Ukr.biokhim.zhur. 32 no.1:111-119 '60. (MIRA 13:6)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiyev, and the All-Union "Magarach" Research Institute for Wine-making and Viticulture, Yalta.
(CHAMPAGNE (WINE)) (WINE--PHYSIOLOGICAL EFFECT)

PALLADINA, L.I.; GUDINA, A.M. [Hudina, A.M.]

Effect of some organic acids introduced into the organisms on oxidation and reduction processes in regenerating tissues. Ukr. biokhim. zhur. 32 no.6:867-876 '60. (MIRA 14:1)

1. Department of Biological Chemistry of the Sverdlov State Medical Institute.
(ACIDS, ORGANIC) (OXIDATION, PHYSIOLOGICAL)
(REGENERATION, (BIOLOGY))

PAL'ABINA, I.I.; GUDINA, A.M. [Hudina, A.M.]; PRIL'TSKAYA, L.N. [Prylutsʼka, L.M.], studentka

Effect of some biologically active substances on the enzyme activity of regenerating tissues. Ukr. biokhim. zhur. 35 no.2: 282-293 '63. (MIRA 17:9)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R. Kiev.

KUDRINA, F.I.; GUDZIN, A.M. [Hudzin, A.M.]

Study of the protein composition of the regenerating liver and the effect of some amino acids on it. Ukr. biokhim. zhur. 35 no.6:844-851 '63. (MIRA 17:1)

1. Institut biokhimii AN UkrSSR, Kiyev.

GUDINA, Nikolay, uchitel' istorii (Zaporozhskaya oblast', selo Gusarka)

It was near Brest. Kryl.rod. 13 no.2:6 F '62. (MIRA 15:1)
(World War, 1939-1945--Aerial operations)

ACC NR: AP7004492 (A) SOURCE CODE: UR/0364/67/003/001/0120/0122

AUTHORS: Fayzullin, F. F.; Nikitin, Ye. V.; Gudina, N. N.

ORG: Kazan State University im. V. I. Ul'yanov-Lenin (Kazanskiy gosudarstvennyy universitet)

TITLE: On the mechanism of the formation of anode films on liquid gallium

SOURCE: Elektrokhimiya, v. 3, no. 1. 1967, 120-122

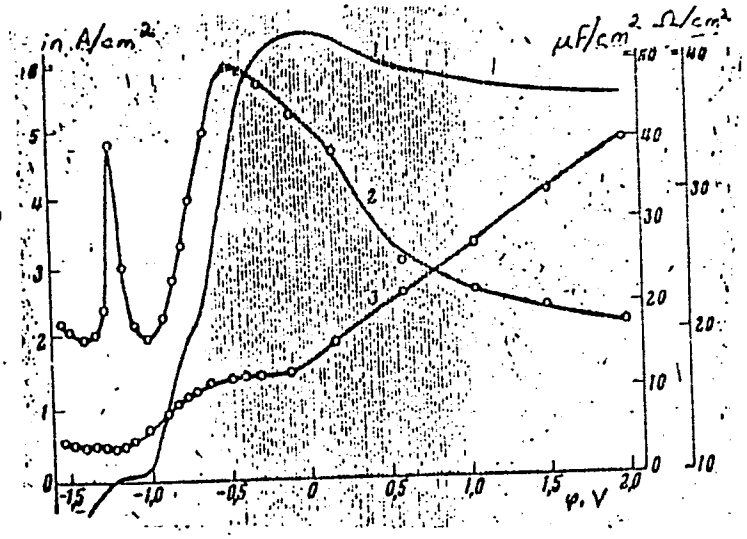
TOPIC TAGS: gallium, electrode, electrode potential, mercury alloy, mercury compound, potassium compound, electric impedance, electrolyte, electric resistance, electric capacitance, gallium compound, OXIDE FORMATION, LIQUID METAL

ABSTRACT: The mechanism of the formation of anode oxide films on a liquid gallium electrode in alkali solutions is studied. The electrode design is described by T. I. Lezhava, A. T. Vagramyan (Izv. AN SSSR, Ser. khim., No. 3, 435, 1964). The purity of the gallium was 99.9998%. A mercury-mercurous oxide electrode served as the comparison electrode. The KOH solutions were prepared by dissociation of potassium amalgam in doubly distilled water; all tests were at 32C. Polarization potentiostatic curves were plotted (see Fig. 1). Alternating current of 100—20 000 cycles was applied to the gallium electrode and to a platinum-plated platinum disk over the surface of the electrode under study. The electrode impedance was also measured. It was found to be probable that active dissolution of the gallium electrode and the formation and growth

Card 1/2 UDC: 541.13

ACC NR: AP7004492

Fig. 1. Polarization potentiostatic curve of i versus φ (1) of liquid gallium electrode in 0.1-N KOH at 32C; and curves of capacitance C (2) and resistance R (3) versus electrode potential in same solution at 1000 cycles



of the passivating oxide are not controlled by diffusion of the reacting particles. Orig. art. has: 2 graphs.

SUB CODE: 07/ SUBM DATE: 04Jul66/ORIG REF: 006/ OTH REF: 005

Card 2/2

GUDINA, O.N.

Changes in vestibular and visual nystagmus in tumors and inflammatory diseases of the brain. Zhur. nevr. i psikh. 61 no.11:1663-1667 '61. (MIRA 15:2)

1. Kafedra nervnykh bolezney (zav. - dotsent K.A.Velikov) Kalininskogo meditsinskogo instituta.
(BRAIN--TUMORS) (NYSTAGMUS)

VELIKOV, K.A., dotsent; GUDINA, O.N., assistent; GORDIYENKO, A.N., kand.med. nauk

Diagnosis and treatment of cerebral arachnitis of infectious etiology. Trudy KGMI no.10:485-490 '63. (MIRA 18:1)

1. Iz kafedry nervnykh bolezney (zav. kafedroy dotsent K.A.Velikov) Kalininskogo gosudarstvennogo meditsinskogo instituta.

[illegible], [illegible]

"The Vitamin C Requirements of Horses." Jan [illegible] Kirov [illegible] Inst, [illegible] Higher Education USSR, Kirov, 1955. (KL, No 13, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

LOBANOV, N.N., kand.veterin.nauk; GUDINA, V.A., kand.veterin.nauk

"Livestock hygiene" by A.P.Onegin. Reviewed by N.N.Lobanov, V.A.Gudina. Veterinariia 36 no.10:81-83 O '59. (MIRA 13:1)

(Veterinary hygiene)

GUDINA, V.I.

Microfaunal characteristics of the Upper Cretaceous sediments in the Vakh Basin. Geol.i geofiz. no.5:52-56 '61. (MIRA 14:6)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR Novosibirsk.

(Vakh Valley--Foraminifera, Fossil)

GUDINA, V.I.; GOL'BERT, A.V.

Lithological and paleontological investigations of Taz-Sanchugovka sediments in the Trurkhan Basin. Trudy Inst. geol. i geofiz. Sib. otd. AN SSSR no.27:90-101 '62. (MIRA 17:11)

GUDINA, V.I.

Some Quaternary Elphidiidae in the northern part of the West Siberian Plain. Geol. i geofiz. no.9:66-80 '64. (MIRA 18:7)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

LEBEDEV, Ye.A.; GUDINA, V.N.

Lubrication of die-casting dies. Lit.proizv. no.11:41-42 N '61. (MIRA 14:10)

(Metal-working lubricants) (Die casting)

38046
S/128/62/000/005/001/005
A004/A127

18.1410

AUTHORS: Lebedev, Ye.A.; Gudina, V.N.

TITLE: The new AЛ 15-8 K (AL15-8K) aluminum alloy for pressure casting

PERIODICAL: Liteynoye proizvodstvo, no. 5, 1962, 9 - 10

TEXT: The authors report on tests being carried out at the NIITAVTOPROM, Minskiy motovelozavod (Minsk Motorcycle Plant) and MZMA, to investigate the casting and mechanical properties of the AЛ10B (AL10V), AЛ3B (AL3V), AЛ9B (AL9V), МКЦС (MKTsS) and AЛ154 (AL154) alloys used in pressure casting. Alloys of the Al-Si-Cu system with σ_b up to 30 - 35 kg/mm^2 and ternary alloys with an Si-content of 5, 6, 7, 8, 9 and 10% and a Cu-content of 1, 2, 3, 4, 5 and 6% were tested, these alloys being produced on the basis of the secondary AL154 alloys. The highest σ_b = 26 kg/mm^2 and δ = 2% were achieved with an alloy of 7 -9% Si and 2.5 - 4.5% Cu which was conditionally designated AL15-8K. A graph shows the dependence of σ_b and δ % on the temperature of the metal to be poured. It was found that both these values grow with an increasing temperature of the alloy being poured. For purifying the molten metal from suspended

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Card 1/2

inclusions, apart from deadmelting, fluxing and chlorinating, the metal can be filtered through a lump filter, the filtering layer consisting of crushed magnesite brick lumps of 12 - 15 mm size. The authors present a number of graphs and test results which were obtained in investigating the properties of the AL15-8K alloy and point out that this alloy, containing on the average 7 - 9% Si, 2.5 - 4.5% Cu and up to 0.6% Mg, 1.2% Zn, 1.5% P and 0.5% Mn possesses pressure-casting properties which are superior to the standard AL3, AL9 and AL10 alloys. There are 8 figures.

LEBEDEV, Ye.A.; GUDINA, V.N.

New lubricants for die-casting molds for casting aluminum parts. Avt.prom. 28 no.2:36-38 F '62. (MIRA 15:2)

1. Nauchno-issledovatel'skiy institut avtomobil'noy promyshlennosti i Moskovskiy zavod malolitrazhnykh avtomobiley.
(Die casting--Equipment and supplies)

GUDINIENE B.

DAGIS, I.; GUDINIENE, B.; PUTRIMAS, A.; SODEIKAITE, B.; JANKEVICIUS, K.

Dynamics of phytoncides of the meadow buttercup during its vegetative period. Bot.zhur. 39 no.5:721-733 S-O '54. (MLRA 7:11)

1. Institut biologii Akademii nauk Lit. SSR; Vil'nyusskiy Gosudarstvennyy universitet.
(Phytoncides) (Buttercup)

USSR / Human and Animal Physiology. Metabolism. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40945.

Author : Palladina, L. I.; Gudinova, ~~A. M.~~
Inst : Not Given.
Title : The Effect of Compounds with the Tricarbon Cycleon Oxidative Processes in Regenerating Tissues.

Orig Pub: Ukr. biokhim. zh., 1956, 28, No 3, 329-337.

Abstract: The effect of sodium succinate, sod. citrate (I), sodium mallate and fumerate on respiration of normal and regenerating tissue of the liver, taken from rats at 1 week intervals, was studied. Tissue respiration was measured in Barburg's apparatus. Respiration of regenerating liver tissue was less

Card 1/2

GUDIS, S.Ye.

Mental disorders in cerebral cysticercosis. Vop. psikh. nevr. no.10:397-403 '64. (MIRA 18:12)

1. 3-ya Leningradskaya psikhonevrologicheskaya bol'nitsa imeni Skvortsova-Stepanova (glavnyy vrach N.D.Bulkin, nauchnyy konsul'tant - prof. S.S.Mnukhin).

GUDIVOK, I. I.

Treatment of lactation mastitis using ultrasonics. Akush. i gin. no.2:36-37 '62. (MIRA 15:6)

1. Iz kafedry obshchey khirurgii (zav. - prof. D. L. Rotenberg) Stanislavskogo meditsinskogo instituta (dir. - dotsent G. A. Babenko)

(BREAST--DISEASES) (LACTATION)
(ULTRASONIC WAVES--THERAPEUTIC USE)

GUDIVOK, I.I.

Experience with ultrasonic treatment of some acute inflammatory processes. Sov. med. 27 no.8:107-112 Ag '64. (MIRA 18:3)

1. Kafedra obshchey khirurgii (zav.- prof. D.L. Rotenberg) Ivano-Frankovskogo meditsinskogo instituta.

GUDIVOK, P.M.

Integral rapresention of (p_1, p) type groups. Dokl. i soob. UzhGU. Ser. fiz.-mat. i ist. nauk no.5:73 '62.

On p-adic integral representations of finite groups. Ibid.: 81-82 (MIRA 17:9)

BERMAN, S.D., dotsent; GUDIVOK, P.M.

Integral representations of finite groups. Dokl. i soob. UzhGU. Ser. fiz.-mat. i ist. nauk no.5:74-76 '62. (MIRA 17:9)

BERMAN, S.D.; GUDIVOK, P.M.

Integral representations of finite groups. Dokl.AN SSSR 145 no.6:1199-1201 Ag '62. (MIRA 15:8)

1. Yzhgorodskiy gosudarstvennyy universitet. Predstavleno akademikom P.S.Novikovym.

(Groups, Theory of)

GUDIVOK, P.M. (Uzhgorod)

Relation between the orders of classes of conjugate elements and the degree of absolutely irreducible representations for a certain class of groups. Izv. vys. ucheb. zav.; mat. no.2:44-62 '63. (MIRA 16:7)
(Abelian groups)

GUDIVOK, P.M. [Hudyvok, P.M.]

Representations of finite groups over certain local rings. Dop. AN URSR no.2:173-176 '64. (MIRA 17:5)

1. Uzhgorodskiy gosudarstvennyy universitet. Predstavleno akademikom AN UkrSSR. V.M. Glushkovym [Hlushkov, V.M.].

GUDIVOK, P.M. (Uzhgorod); DROBOTENKO, V.S. (Uzhgorod); LIKHTMAN, A.I. (Uzhgorod)

Representations of finite groups over a ring of classes of substractions modulo m. Ukr. mat. zhur. 16 no.1:82-88 '64. (MIRA 17:5)

BERMAN, S.D.; GUDIVOK, P.M.

Indecomposable representations of finite groups over a ring of integral p-adic numbers. Izv. AN SSSR. Ser. mat. 28 no. 4:875-910 Jl-Ag '64. (MIRA 17:9)

GUDIVOK, P.M.

Representations of finite groups over quadratic rings. Dokl. AN SSSR 159 no.6:1210-1213 D '64 (MIRA 18:1)

1. Uzhgorodskiy gosudarstvennyy universitet. Predstavleno akademikom P.S. Novikovym.

GUDIVEV, A. Kh.

Gudivev, A. Kh. -- "Determination of the Number of Classes of Ideals of Fourth-Order Algebraic Fields." Min Higher Education U.S.S.R. Kiev State U imeni T. G. Shevchenko. Kiev, 1956. (Dissertation for the Degree of Candidate in Physicomathematical Science)

So: Knizhnaya Letopis', No 12, 1956

GUDIYEV, A. Kh.

Imbedding theorem for a trace in abstract functions. Dokl. AN SSSR 147 no.4:764-767 D '62. (MIRA 16:1)

1. Institut matematiki s vychislitel'nym tsentrom Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom S. L. Sobolevym.

(Hyperspace) (Functions)

GUDIYEV, A.Kh.

On S.L. Sobolev's imbedding theorems for abstract functions. Dokl. AN SSSR 148 no.1:24-27 Ja '63. (MIRA 16:2)

1. Institut matematiki s vychislitel'nym tsentrom Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom S.L. Sobolevym.
(Functions)

GUDIYEV, A.Kh.

Problem of S.L.Sobolev and S.M.Nikol'skii for the limit exponent. Dokl.AN SSSR 149 no.3:509-512 Mr '63. (MIRA 16:4)

1. Institut matematiki s vychislitel'nym tsentrom Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom S.L.Sobolevym.
(Inequalities (Mathematics))

GUDIYEV, A.Kh.

$L_{(p1, p2, \ldots, pk)}(\omega_m)$ classes and an imbedding theorem for abstract functions of sets. Dokl. AN SSSR 149 no.2:241-244 Mr '63. (MIRA 16:3)

1. Institut matematiki s vychislitel'nym tsentrom Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom S.L.Sobolevym.
(Topology) (Functions)

GUDIYEV, A.Kh.

Imbedding theorems for certain classes of abstract functions. Dokl. AN SSSR 156 no. 5:1014-1017 Je '64. (MIRA 17:6)

1. Institut matematiki s vychislitel'nym tsentrom Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom S.L.Sobolevym.

GUDIYEV, A.Kh.

Differential properties of traces of functions on hyperplanes of any dimensions. Dokl. AN SSSR 160 no.2:267-270 Ja '65.
(MIRA 18:2)

1. Institut matematiki Sibirskogo otdeleniya AN SSSR. Submitted June 29, 1964.

GUDIYEV, A.Kh.

Some generalizations of imbedding theorems. Sib. mat. zhur. 6 no.4: 775-797 Jl-Ag '65. (MIRA 18:10)

GUDIYEV, A.Kh.

Perfect continuity of certain linear operators in spaces with a mixed norm. Izv. AN Uz.SSR. Ser. fiz.-mat. nauk 9 no.5:18-23 '65. (MIRA 18:11)

1. Institut matematiki Sibirskogo otdeleniya AN SSSR. Submitted February 18, 1965.

GUDIYEV, A.Kh.

Imbedding theorems for spaces with a mixed norm. Dokl. AN SSSR 166 no.3:522-525 Ja '66. (MIRA 19:1)

1. Institut matematiki Sibirskogo otdeleniya AN SSSR. Submitted May 21, 1965.

GUD[redacted]KEVICH, L. A

Steam Boilers

Economic effectiveness of automatizing boiler equipment. Za ekon.mat. no.2, 1942

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

GUDKEVICH, L. A.

PA 54/49T43

USSR/Engineering Dec 48
Boilers
Electric Power Plants

"Automatic Oxygen Recorder," L. A. Gudkevich, Ya. V. Rubinovich, Engineers, 1½ pp

"Elek Stants" No 12

Describes two experimental models for measuring oxygen content in high-pressure thermal-power plant boilers. Used standard parts wherever possible. Performance considered equivalent to type imported from a Cambridge firm. Device includes following instruments: transmitting element, condenser, voltage source (selenium rectifier), and self-recording galvanometer. Operates on principle of thermal changes in platinum wire (0.02 mm diameter) inserted in a measuring chamber whose thermal conductivity depends on oxygen content.

54/49T43

GUDKEVICH, L. A. I RUBINOVICH, Ya. V.

26352 Opticheskii snizhennyy ukazatel' urovnya (s primech. Red.) Zlektr. Stantsii, 1949, No. 8, s. 17-18.

SO: LETOPIS' NO. 35, 1949

PROCESSES AND PROPERTIES INDEX

711

469. AUTOMATIC CONTROL OF BOILERS WITH CHAIN GRATE STOKES. Gudkevich LA (Za Ekon, Topliva (Fuel Econ.), 1950, (3), 1-3).
Description with diagram of hydraulically operated control gear installed on two boilers producing 40 tons of steam per hour 65 atmospheres on peat fuel. (L)

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

GUDKEVICH, L. A. DMITRIYEV, A. A.
ZALKIND, YE. M., LIVSHITS, E. M.

Furnaces, Electric Welding

Designing, constructing and operating peg slag screens.
Elek. sta. 23, No. 3, 1952, Inzh.

SO: Monthly List of Russian Accessions, Library of Congress, July 1952 /AGBA/, Uncl.

[illegible]

Furnaces, Electric Melting

Designing, constructing and operating gas slag screens. Elek. Sta. 23 No. 3, 1952. Engh.

SO: Monthly List of Russian Accessions, Library of Congress, July 1952 1953, Uncl.

GUDKEVICH L.A.

BRZHOZOVSKIY, V.F., inzhener; GUDKEVICH, L.A., inzhener; ROGALIN, A.O., inzhener; SLOUSHCHER, K.M., inzhener; FROLOV, P.M., inzhener.

Block-type boiler with an output of 90 tons per hour. Elek.sta. 25 no.11:21-30 N '54. (MLRA 7:11)
(Steam boilers)

AID P - 4375

Subject : USSR/Power Engineering

Card 1/1 Pub. 110 a - 1/17

Author : Gudkevich, L. A., Eng. Bureau for the organization of Power Plant Construction.

Title : Further implementation of the method of mounting pre-assembled parts of power equipment.

Periodical : Teploenergetika, 5, 3-8, My 1956

Abstract : The practice of assembling equipment parts and details at the construction site is severely criticized. The method of pre-assembling parts at the plant prior to shipping is considered more efficient, speedier and less costly. The pre-assembling of boilers of various dimensions is explained. Seven photos and diagrams.

Institution : None

Submitted : No date

GUDKEVICH, L.A., inzh.; MIRENBURG, S.L., inzh.; FRIDMAN, A.M., kand.tekhn. nauk.

Constrruction of open steam power plants. Elek. sta. 29 no.6:7-11 Je '58. (MIRA 11:9)

(Steam power plants)

GUDKEVICH, L.A., inzh.

Build open thermoelectric power plants. Prom stroi. 37 no.5:22-26 My '59. (MIRA 12:7)

1. Institut Orgenergostroy.
(Electric power plants--Equipment and supplies)

GUDKEVICH, L.A., inzh.

Equipment for thermal electric power plants should be delivered by the manufacturer in the form of assembled units. Teploenergetika 7 no.11:15-22 N '60. (MIRA 14:9)

1. Orgenergostroy.
(Electric power plants--Design and construction)

GUDKIN, A. F.

GUDKIN, A. F.: "The microclimate of typical pig-sties and feeding pens in the compartment period under the conditions obtaining in the northwest of the USSR". Leningrad, 1955. Leningrad Veterinary Inst, Min Higher Education. (Dissertations for the Degree of Candidate of Agricultural Sciences)

SO: Knizhnaya letopis', No. 52, 24 December, 1955. Moscow.

TULUPOVA, M.A., assistent; GUDKIN, A.F., kand.sel'skokhozyaystvennykh nauk; SOSNOVSKIY, K.A.

Raising chicks on thick unchanged litter on the Lazo State Farm in Amur Province. Ptitsevodstvo 8 no.12:11-12 D '58. (MIRA 11:12)

1. Blagoveshchenskiy sel'skokhozyaystvennyy institut (for Tulupova).
2. Direktor sovkhoza imeni Lazo (for Sosnovskiy).
(Amur Province--Poultry)

GUDKIN, A.F., kand. sel'skokhozyaystvennykh nauk; MURUSIDZE, D.N., kand. sel'skokhozyaystvennykh nauk; SMIRNOV, I.A.

Use of ultraviolet rays in incubating eggs. Ptitsevodstvo 9 no.2:19-20 F '59. (MIRA 12:3)

1.Direktor Kasharskoy inkubatorno-ptitsevodcheskoy stantsii, Rostovskoy oblasti.

(Poultry--Feeding and feeding stuffs)

GUDKIN, A.F., kand.sel'skokhoz.nauk; TULUPOVA, M.A.

Effectiveness of keeping hens on deep litter in Amur Province. Ptitsevodstvo 9 no.8:17-19 Ag '59. (MIRA 12:12)
(Litter (Bedding)) (Amur Province--Poultry)

CHUPKIN, A.F., kand. sel'skokhozyaystvennykh nauk; MOZHUKHIN, Ya.P., starshiy prepodavatel'

Prophylaxis of hypovitaminosis A in calves and young pigs. Veterinariia 41 no.4:63-65 Ap '65. (MIRA 18:6)

1. Blagoveshchenskiy sel'skokhozyaystvennyy institut.

GUDKIN, A.F., dotsent; MOSKALENKO, Yu.P., prepodavatel'

Measures for controlling paratyphoid fever in cattle and swine. Veterinariia 42 no.5:52-54 My '65. (MIRA 18:6)

1. Blagoveshchenskiy sel'skokhozyaystvennyy institut.

GUDKIN, A.G.

Plant potential. Put'i put.khoz. no.7:10-11 Jl '59. (MIRA 12:10)

1. Nachal'nik Vyazemskogo shchebenochnogo zavoda, Vyaz'ma.
(Vyaz'ma--Stone, Crushed)

GUDKIN, G.M.; SHPITS, L.I.

Automatic adjusting instrument for a centerless grinding machine. Podshipnik no.4:25-28 My '53. (MLRA 6:5)
(Grinding and polishing)

SIMKHES, A.I.; AKULOV, Ye.F.; GUDIN, L.K.; SHABANOV, B.I.

Three-channel tensiometric measuring unit. Trudy Inst. gor. dela Sib. otd. AN SSSR no.6:91-94 '61. (MIRA 15:9)
(Mining machinery—Testing) (Tensiometers)

5(4) SOV/54-59-3-16/21

AUTHORS: Fridrikhsberg, D. A., Gudkin, L. R.

TITLE: Investigation of the Flow Potential and Surface Conductivity in Organic Liquids and Their Aqueous Solutions

PERIODICAL: Vestnik Leningradskogo universiteta. Seriya fiziki i khimii, 1959, Nr 3, pp 99 - 105 (USSR)

ABSTRACT: The measurement of the ζ-potential and the surface activity is of importance for both the theoretical treatment of the electrochemical properties of suspensions and for the control of technological processes. The Soviet author Berkman is mentioned in connection with a review on publications of the existing methods of measurement. The present paper deals with the investigation of the flow potential of the substances $BaCO_3$ (powdery) and the liquid phases of the systems: methyl alcohol - water, acetone - water, methyl alcohol - acetone, ethyl alcohol - water, methyl alcohol - water - $BaCO_2$. All systems are saturated as regards $BaCO_3$. Further investigations dealt with the aqueous $BaCl_2$-solutions (0.1, 0.01, 0.003 and 0.001 n). Flow potential and resistance of the diaphragm were measured

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on an apparatus which is also used by Zhukov and Kryukov and in other research work of the Kafedra kolloidnoy khimii (Chair of Colloidal Chemistry). Figure 1 shows the scheme of the surface potential measuring device, and figure 2 the amplifier scheme for measuring high resistances. A direct dependence of E on pressure P (Fig 3) resulted from the measurement of the flow potential E. The specific conductivity of the liquid in the diaphragm pores was determined from the resistance of the diaphragm and the diaphragm in a determined solution κ, the efficiency coefficient α and the specific surface conductivity κ_s. The table contains the values obtained for a number of systems. On this basis the ζ-potential was calculated according to the Helmholz-Smolukhovskiy equation. D and η were taken from the table (Refs 16,17). As D and η cannot be measured in an electric double-layer, it is not possible to determine the ζ-potential in dependence on the medium. Also the values for ζ given in this paper are only for purposes of orientation. The value E/P, on the other hand, proved to depend on its composition in all media investigated, and the following rule was observed: The smaller the water content of the solutions, the higher

was the flow potential. Thus, the liquids are not so well conductive, and the potential difference due to counter-flow, drops. Surface conductivity drops at low water content, and the efficiency coefficient passes through a minimum. This is explained in the following way: due to decreasing surface dissociation also α and κ_S decrease (Figs 4,5,6). As the value κ_V (referred to the volume) decreases even more rapidly, α increases again with further decreasing water content as a result of ratio

$$\alpha = \frac{\kappa_V + \kappa_S}{\kappa_V}$$

. The mutual dependence has to be investigated even more closely in the case of anhydrous systems. There are 6 figures, 1 table, and 17 references, 5 of which are Soviet.

SUBMITTED: July 5, 1959

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FRIDRIKHSBERG, D.A.; GUDKIN, L.R.

Streaming potential and surface conductivity investigations in organic liquids and their aqueous solutions. Vest.LGU 14 no.16: 99-105 '59. (MIRA 12:10)
(Organic compounds--Electric properties)

SAMSONOV, G.V.; GLIKINA, M.V.; PONOMAREVA, R.B.; YURCHENKO, V.S.; GUDKIN, L.R.; KUZNETSOVA, N.P.; DMITRENKO, L.V.; ZAYTSEVA, A.D.

Transformations of polypeptides and synthesis of the peptide bond on ion exchange resins. Biokhimiia 25 no.5:964-973 S-O '60. (MIRA 14:1)

1. Institute of High Polymer Compounds, Academy of Sciences of the U.S.S.R., Leningrad.
(ION EXCHANGE) (PEPTIDES)

SAMSONOV, G.V.; GLIKINA, M.V.; GUDKIN, L.R.; MOROZOVA, A.D.

Catalytic transformations of polypeptides on ion exchange resins. Biokhimiia 28 no.6:1035-1040 N-D'63 (MIRA 17:1)

1. Institute of High-Molecular Compounds, Academy of Sciences of the U.S.S.R., Leningrad.

GIDKIN, M.Z., inzh.; REZNIK, V.I., inzh.

TP-70 (TP-430) boiler made by the "Krasnyi kotel'shchik" plant in Taganrog. Energomashinostroenie 3 no.10:1-5 O '57. (MIRA 10:12)
(Taganrog--Boilers)

RODIONOV, S.V.; MININ, A.M.; ZHESTYANNIKOV, V.M.; GUDKIN, V.G.

Design of a standard unit for the finishing of products in the electrostatic field. Der. prom. 15 no.1:19-20 Ja '66. (MIRA 19:1)

BOGOMOLOV, S.G.; GUDKINA, R.I.; SHAYEVICH, A.B.

Ural Conference on Spectroscopy. Zav.lab. 29 no.11:1400-1401 '63. (MIRA 16:12)

GUDKOV, A.

USSR/Labor 5400., 5401. Oct 1947
Trade Unions 5405.

"Results of the Mass Check on the Fulfillment of Collective Agreements," A. Gudkov, Executive Secretary for Collective Agreements of the Wages Dept of VTsSPS, 4 pp

"V Pomoshch' FZMK" Vol VIII, No 18

Secretariat of All-Union Central Soviet of Trade Unions (VTsSPS) called for mass check on fulfillment of collective agreements and the 1947 plan. Results of check showed that production for second quarter has been generally above plan and that since concluding of collective agreements, participation in

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USSR/Labor 5400., 5401. (Contd) Oct 1947

socialist competitions has increased. Names plants which have and have not fulfilled plan and agreements.

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GUDKOV, A., prof., doktor tekhn.nauk, zasluzhennyy deyatel' nauki i tekhniki RSFSR.

New ideas should be used in designing agricultural machinery. NTO 2 no.9:11-16 S '60. (MIRA 13:9)

1. Zaveduyushchiy kafedroy sel'skokhozyaystvennykh mashin Stalingradskogo sel'skokhozyaystvennogo instituta.
(Agricultural machinery--Design and construction)

GUDKOV, A.; BUSURIN, Ya.; IOFE, N.; PALKIN, G., kand. sel'khoz. nauk; TUNITSKIY, A., red.; KOROTAYEVA, D., tekhn. red.

[Manual on private livestock and poultry raising] Spravochnik po individual'nomu zhivotnovodstvu i ptitsevodstvu. Moskva, Izd-vo VTsSPS Profizdat, 1946. 182 p. (MIRA 14:8)
(Stock and stockbreeding) (Poultry)

GORNSHTEYN, D.K.; GUDKOV, A.A.; KOSOLAPOV, A.I.; LEYFTSIG, A.V.; MEL'NIKOV, V.M.; MOKSHANTSEV, K.B.; FRADKIN, G.S.; CHERSKIY, N.V.; TROFIMUK, A.A., akademik, nauchn. red. vyp.; ROZHKOV, I.S., glav. red.; KOBELYATSKIY, I.A., zam. glav. red.; SHATALOV, Ye.G., zam. glav. red.; BONDARENKO, V.I., red.; GRINBERG, G.A., red.; YELOVSKIKH, V.V., red.; RUSANOV, B.S., red.; SEMENOV, G.T., red.; TKACHENKO, B.V., red.; KALANTAROV, A.P., red.izd-va; GUSEVA, A.P., tekhn. red.

[Basic stages of the geological development and prospects for finding oil and gas in the Yakut A.S.S.R.] Osnovnye etapy geologicheskogo razvitiia i perspektivy neftegazonosnosti IAkutskoi ASSR. [By] D.K.Gornshtein i dr. Moskva, Izd-vo AN SSSR 1963. 238 p. (MIRA 16:12)

(Yakutia--Petroleum geology)
(Yakutia--Gas, Natural--Geology)

GUDKOV, A.A.

Modernization of the UKIT-3000 fatigue testing machine. Zav.lab. 29 no. 12:1501-1502 '63. (MIRA 17:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.

GUDKOV, A.A.; YEVTEYEV, I.K.; BALASHOV, L.V.

Apparatus for high-temperature fatigue testing of a rotating speciment under cantilever bending. Zav. lab. 30 no.5:606-607 '64. (MIRA 17:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni I.P. Bardina.

L 27768-65 EPA(s)-2/EWP(k)/EWT(d)/EWT(m)/EPA(bb)-2/EWP(h)/T/EWA(d)/EWP(w)/EWP(t)/
ACCESSION NR: AT5003405 S/2776/64/000/038/0123/0135
ETI-2/PE-10/ IJP(c) EM/MJS/JD/HW

AUTHOR: Timoshuk, L. T.; Gudkov, A. A.

TITLE: Methods of testing metals and alloys for creep and vibratory creep

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 38, 1964. Novyye metody ispytaniy metallov; metallograficheskiye issledovaniya i mekhanicheskiye ispytaniya metallov (New methods in the analyses of metals; metallographic investigations and mechanical analyses of metals), 123-135

TOPIC TAGS: vibratory creep, creep, nickel alloy, chromium containing alloy, turbine component, creep testing / alloy EI726, alloy EI652

ABSTRACT: The authors investigated the effects of long-term application of static load and vibration produced by a specially designed machine on the behavior of EI726 and EI652 alloys normally used at service temperatures of 600-700 and 1100 - 1200 C, respectively. The composition of EI726 is: 0.08 - 0.12%C; 0.6% Si; 2% Mn; 15% Cr; 20% Ni; 1.2% Nb; 2.75% W; 0.025% B; S≤0.020%; P≤0.020%; this alloy is used for the manufacture of vanes, disks, rotors and pipes; alloy EI652 contains 0.1% C; 0.8% Si; 0.3% Mn; 29% Cr; Ni is the base; 3.5% Al; 1% Fe;

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ACCESSION NR: AT5003405

S≤0.020%; P≤0.020%; B 0.10%; this alloy is used for the manufacture of combustion chambers. Both alloys were subjected to constant and variable temperature conditions and EI652 was exposed to variable rates of load application. Specimens of EI726 were characterized by a high rate of vibratory creep at 600 and 700 C within the inital 1 - 3 hrs. of testing. Subsequently, the rate of creep and of vibratory creep evened out. Absolute elongation was higher in specimens exposed to vibration. During the initial stage of testing, EI652 specimens displayed a higher rate of creep than of vibratory creep under a load of 3 kg/mm^2 and at 900 C. Within 1 - 3 hours, the rate of creep and vibratory creep became almost the same. The absolute value of the elongation during vibration was lower at any stage of testing than during creep tests. At 1000 C and a load of 1.5 kg/mm^2 the rate of creep was higher in the initial stage of vibratory testing than during creep tests under similar conditions. Within 13 - 14 hrs., the rate of vibratory creep increased appreciably in comparison with the rate of creep. After 15 to 20 hrs., the deformation under the influence of vibration was double that in creep tests. Variable temperature and load application conditions produced similar results. The application of vibration to the static part of the load hardened the EI652 alloy somewhat at 900 C and substantially increased deformation at 1000 C. Orig. art. has: 16 figures and 4 formulas.

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