

L 39951-65

ACCESSION NR: AP4007909

A new method is suggested for determining molybdenum and tungsten traces in the single crystals of cadmium sulfide and lithium fluoride. Orig. art. has: 1 figure, 4 tables 3 formulas

ASSOCIATION: Vsesoyuznyy Nauchno-issledovatel'skiy institut monokristallov, Stsintillyatsionnykh materialov i osobo chistyykh khimicheskikh veshchestv, Khar'kov (All-Union Scientific Research Institute of Monocrystals, Scintillating Materials and Highly Pure Chemical Substances)

SUBMITTED: 14Mar63

ENCL: 00

SUB CODE: SS, GC

NO REF SOV: 005

OTHER: 002

Card 3/3

JO

BULGAKOVA, A.P.

Metacolloid siderite in the weathering surface of crystalline
rock of the Lebedi deposit in the Kursk Magnetic Anomaly.
* za vyvetr. no.6:58-66 '63. (MIRA 17:9)

1. Nauchno-issledovatel'skiy institut po problemam Kurskoy
magnitnoy anomalii.

ILLYUTOVICH, A.Yu.; BUDYLINA, V.V.; MAKHLINOVSKIY, L.I.; BULGAKOVA, A.S.

Seroprophylaxis of tetanus. Zhur. mikrobiol. epid. i immun. 32 no.7:
70-73 Je '61. (MIRA 15:5)

1. Iz Stavropol'skogo instituta vaktsin i syvorotok i gorodskogo
travmatologicheskogo kabineta.
(TETANUS)

BULGAKOVA, A. V.

25034 Bulgakova, A. V. Voprosu Olecheni Abtsensov Legkikh. Sbornik
Nauch. Rabot Lecheb. Uchrezhdeniy Mosk. Voen. OKR. Ger'tkiy, 1948,
S. 41-50

SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948

1 26357-66 EWT(m)/ETC(f)/EWG(m)/EWP(j)/T/ETC(m)-6 DS/JD/WW/HW/RM

ACC NR: AP6013383

SOURCE CODE: UR/0195/66/007/002/0332/0335

AUTHOR: Bulgakova, G. M.; Mayzus, Z. K.; Skibida, I. P.ORG: Institute of Chemical Physics, AN SSSR (Institut khimicheskoy fiziki AN SSSR)TITLE: Mechanism of chain branching during catalyzed oxidation of n-decane in the presence of cobalt stearate

SOURCE: Kinetika i kataliz, v. 7, no. 2, 1966, 332-335

TOPIC TAGS: decane, cobalt compound, catalysis, hydroperoxide, free radical

ABSTRACT: The catalyzed decomposition of n-decyl hydroperoxide (ROOH) in a nitrogen atmosphere was studied at 60°-100°C in order to determine the mechanism of chain branching during the catalytic oxidation of n-decane with cobalt stearate CoSt_2 as the catalyst. The chain branching rate W was found to increase with the hydroperoxide concentration up to a certain value $[\text{ROOH}] = [\text{ROOH}]_{\text{max}}$ above which the rate of consumption of the hydroperoxide remains constant, indicating that the formation of radicals (produced by the decomposition of the hydroperoxide) is preceded by the formation of a complex. Kinetic data showed that the complex had the composition $[\text{St}_2\text{Co}\cdot\text{ROOH}]$. The rate constant of the formation of radicals as a result of the reaction of this complex with cobalt stearate was calculated to be $k_3 = 2 \cdot 10^{17} \exp(-24500/RT)$ l/mol sec.

UDC: 541.128-14

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ACC NR: AP6013383

and the equilibrium constant for the formation of the complex $K = 6 \cdot 10^{-5} \exp(1000/RT)$ l/mol. The results indicate that the great effectiveness of cobalt salts as a catalysts is due to the high value of the rate constant of decomposition of the hydroperoxide into radicals, which is almost 10^3 times greater than the rate constant of radical decomposition in the absence of catalyst. Orig. art. has: 3 figures, 10 formulas. 2

SUB CODE: 07/

SUBM DATE: 04Dec64/

ORIG REF: 003/

OTH REF: 003

Card 2/2

ZAGORETS, P.A.; BULGAKOVA, G.P. (Moscow)

Shifts of absorption bands of hydrated ions under the effect of
addition of perchlorates. Zhur.fiz.khim. 36 no.10:2132-2137
0 '62. (MIRA 17:4)

1. Khimiko-tekhnologicheskii institut imeni Mendeleeva, Moskva.

ZAGORETS, P.A.; BULGAKOVA, G.P.

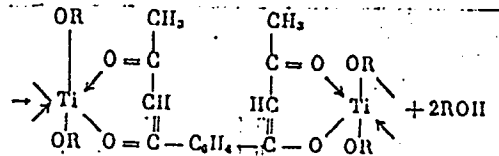
Shift of the absorption spectrum bands of hydrated ions under the effect of added perchlorates. Part 1. Zhur. fiz. khim. 39 no.2: 289-293 F '65. (MIRA 18:4)

1. Khimiko-tehnologicheskly institut imeni Mendeleeva.

L 19444-63
ACCESSION NR: AP3006747

ABSTRACT: Soluble coordination polymers have been prepared by the following methods: 1) Use of addenda with polar substituents. Heating of a 5% alcohol solution of ethyl 2,2'-terephthaloyldiacetoacetate with an excess of a saturated alcohol solution of copper acetate yielded a coordination polymer in the form of a green precipitate. The polymer withstands heating to 200C, is readily soluble in diethylformamide, and is slightly soluble in alcohol, benzene, and acetic acid. Similar products were prepared using Ni, Co, Mg, and Hg. 2) Synthesis of complexes of diketones with metals having the coordination number 6. Heating of terephthaloyldiacetone with tetraethyl or tetra-tert-butyl orthotitanate in dry xylene, with stripping off of the theoretical amount of alcohol, yielded products fully soluble in xylene and having the general formula (as confirmed by elemental analysis),

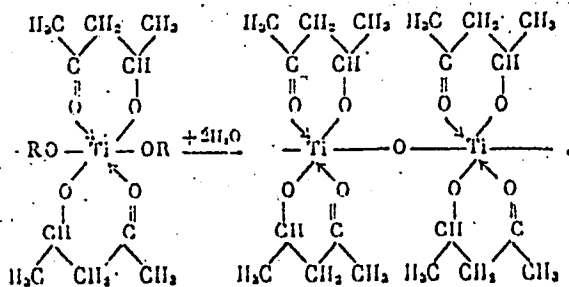
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L 19444-63

ACCESSION NR: AP3006747

By addition of petroleum ether, these products can be precipitated from xylene solution as a yellow fine crystalline substance partly soluble in benzene and dimethylformamide. The molecular weight of the product prepared with tert-butyl titanate was determined by the cryoscopic method to be 800, corresponding to that of the dimer. 3) Synthesis of acetylacetonate or benzoylacetonate complexes with tetra-tert-butyl titanate and their hydrolysis with the theoretical amount of water:



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L 19444-63
ACCESSION NR: AP3006747

The acetylacetonate complex yielded a polymer with molecular weight 12,000 which melts at about 120C and is hydrolyzed in air to form a brittle insoluble product. The benzoylacetonate complex yielded a polymer with molecular weight 900 which is soluble in methyl alcohol, benzene, acetone, and dimethylformamide. Orig. art. has: 4 formulas.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR
(Institute of Organoelemental Compounds, AN SSSR)

SUBMITTED: 23Dec61 DATE ACQ: 30Sep63 ENCL: 00

SUB CODE: CH NO REF SOV: 003 OTHER: 000

4/4
Cara 213

L 4081C-66 ENT(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6025623

SOURCE CODE: UR/0413/66/000/013/0077/0078

AUTHORS: Korshak, V. V.; Vinogradova, S. V.; Lebedeva, A. S.; Bulgakova, I. A.

ORG: none

TITLE: Preparative method for polyarylates.¹ Class 39, No. 183386¹⁵ /announced by Institute of Heteroorganic Compounds, AN SSSR (Institut elementoorganicheskikh soyedineniy AN SSSR) y/

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 77-78

TOPIC TAGS: polyarylates^{plastic}, dicarboxylic acid, polycondensation

ABSTRACT: This Author Certificate presents a method for preparing polyarylates by polycondensation of dicarbonyl chlorides with bisphenols. To broaden the assortment of polyarylates having high thermal stability,² either bis(hydroxyphenyl)pyromellitimide or bis(hydroxyphenyl)pyromellitic acid is used as the bisphenol. [04]

SUB CODE: 07/ SUBM DATE: 05Jul65/ ATD PRESS: 5059

Card 1/1 LC

UDC: 678.673'52'52

ACC NR: AP7004548

SOURCE CODE: UR/0011/66/000/006/0063/0071

AUTHOR: Baginskaya, Ye. N.; Nesmeyanov, D. V.; Bulgakova, I. A.; Coyev, V. I.; Khakimov, M. Yu.

ORG: NII NEFTEGAZ, Moscow

TITLE: New data on the structure of the eastern part of Cis-Caucasia on the basis of regional geophysical work

SOURCE: AN SSSR. Izvestiya. Seriya geologicheskaya, no. 6, 1966, 63-71

TOPIC TAGS: telluric current, geophysics

ABSTRACT: The deep structure of Cis-Caucasia was studied in 1962-1964 by geophysical investigations along three regional profiles which cut

across the principal structural elements of that region. The greater part of the article is a detailed description of work along each of

these profiles. The objectives were tracing the surface of the basement and the underlying sedimentary deposits of the Mesozoic; wherever possible discontinuities in the sedimentary strata also were traced.

A wide variety of methods were combined: the refracted waves method, electrical exploration methods (magnetotelluric profiling and sounding and telluric currents methods), as well as gravimetric and magnetometer

work. The results are incorporated in Fig. 1, a map of relief of the basement and distribution of local uplifts in the sedimentary strata, and in Figures 2 and 3, which are detailed geophysical cross sections

along different profiles. The work was effective in detecting areas most promising for further geological prospecting work, especially for petroleum and gas. Orig. art. has: 3 figures. [JPRS: 38,460]

SUJ CODE: 08 / SUBM DATE: 13Apr65

Card 1/1

UDC: 550.81+530.3(471.6)

0926 1376

BULGAKOVA, I.I.

KORZHETSKIY, V.P.; MARUYEVA, V.N.; ~~BULGAKOVA, I.I.~~

Skip used for feeding sand into the hoppers of mixing units. Rats.
i izobr. predl. v stroi. no.3:51-53 '57. (MIRA 11:1)
(Concrete mixers)

BULGAKOVA, K. I., Cand of Tech Sci -- (diss) "The obtention of iodine from borax waters after the extraction of bromine." Leningrad, 1957, 16 pp (State Institute of Applied Chemistry), 60 copies (KL, 37-57, 103)

TSEYTLIN, A.S., kandidat tekhnicheskikh nauk; BULGAKOVA, L.M., starshiy
tekhnik.

Rapid method for determining the moisture content of soils
used in earthworks. Gidr. i mel. 8 no.9:58-60 S '56.

(MLRA 9:10)

(Soil moisture)

SOV-3-58-10-17/23
AUTHOR: Bulgakova, L.M., Docent, Candidate of Philological Sciences
TITLE: More Variety in Instructional Literature (Bol'she raznoo-
braznoy uchebnoy literatury)
PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 10, pp 81 - 84 (USSR)
ABSTRACT: The programs approved by the USSR Ministry of Higher Educa-
tion in 1958 provide that 1) the student must be able to
translate (with a dictionary) literature of his specialty,
and a public-political text, 2) he must have some colloquial
skill. The respective chair of the Leningrad Institute of
RR Engineers admits the second point to be of great import-
ance, but states that under present circumstances it is an
unrealistic demand. The author proves this by the insuf-
ficient number of hours devoted to this subject in school
and at home and the fact that factory men enrolled have for-
gotten their knowledge to a considerable extent. For this
reason the principle task of vuz chairs is to teach the
students to translate literature of their specialty. The

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More Variety in Instructional Literature

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chair applied a method of instruction which deviated from the vuz textbook and made special teaching aids necessary. The author indicates the kind of books required for the 1st and 2nd course and for the optional exercises. These books are not available, but the chair is now composing them. The author gives some information on their contents. There is 1 Soviet reference.

ASSOCIATION: Leningradskiy institut inzhenerov zheleznodorozhnogo transporta imeni akademika V.N. Obratsova (Leningrad Institute of RR Engineers imeni the Academician V.N. Obratsov)

Card 2/2

POROSHIN, K.T., akademik; DAVIDYANTS, S.B.; BURICHENKO, V.K.; BULGAKOVA,
L.V.

Synthesis of alkaloid-peptide compounds. Dokl. AN SSSR 156
no. 5:1118-1120 Je '64. (MIRA 17:6)

1. Institut khimii AN TadzhSSR. 2. AN TadzhSSR (for Poroshin).

BULGAKOVA, M.

On new course. Rabotnitsa 37 no.3:28-29 Mr '59.

(Moscow--Technical education)

(MIRA 12:4)

ANDRIANOV, V.N.; BULGAKOVA, M.D.

Middle Carboniferous age in boundary layers of the Tiks and Verkhoyansk series of the Kharaulakh Mountains in the lower Lena Valley. Dokl. AN SSSR 162 no.1:155-157 My '65. (MIRA 18:5)

1. Institut geologii Yakutskogo filiala Sibirskogo otdeleniya AN SSSR. Submitted January 9, 1965.

BULGAKOVA, M.D.

Presence of clastic cinnabar and ludwigite in the Upper Paleozoic rocks of the northern Kharaulakh Range. Dokl. AN SSSR 162 no.4:911-912 Je '65. (MIRA 18:5)

1. Institut geologii Yakutskogo filiala Sibirskogo otdeleniya AN SSSR. Submitted January 13, 1965.

APRANOVICH, E.I.; ZORKAL'TSEVA, Ye.N.; BULGAKOVA, N.A.

Correlation between the average diameter of erythrocytes and the percentage of macrocytes. Lab.delo 6 no.3:10-12 My-Je '60.

1. Kafedra patologicheskoy fiziologii (zav. - prof. D.I. Gol'dberg) Tomskogo meditsinskogo instituta.

(ERYTHROCYTES)

БУЛГАКОВА, Н. Г.

22

Dehydrogenating action of zinc chloride in the purification of gasoline produced by oxidative cracking. V. E. Gilyshnev and N. G. Bulgakova. *Bull. acad. sci. U.R.S.S., Class sci. tech.* 1946, 1613-20 (in Russian).—From oxidative-cracking gasoline contg. 4.5% O compds. contact with $ZnCl_2$ evolves H_2 in amts. increasing with temp., e.g., at 250 (lowest limit), 275, 325, 365°, H_2 in gas 0.1, 20.05, 31.2, 74.4%. The dehydrogenating effect was further studied with $ZnCl_2$ (55%)-pumice catalysts, dried at not over 200°, grain size 1-3 mm., vol. 200 cc., vol. space rate 0.25, on various mixts. of hydrocarbons with org. O compds., and on pure alics., at 275 and 325°. (1) No H_2 was evolved from mixts. of $n-C_{10}H_{22}$ + CH_3COCH_3 , C_6H_6 + CH_3COCH_3 . From $n-C_{10}H_{22}$ + CH_3COCH_3 , at 275 and 325°, the gas contained 0.0 and 1.7% H_2 ; from $n-C_{10}H_{22}$ + $(CH_3)_2CHCH_2COCH_3$, 0.8 and 9.8% H_2 . High yields, 9.5 and 41.0% H_2 , were obtained from mixts. of petroleum spirits and cyclohexanone. Pure $n-C_{10}H_{22}$, cyclohexane, C_6H_6 , H_2 , and petroleum spirits show no appreciable

H_2 evolution even at 325°. (2) Octanol, b. 186-191°, d_{20}^{20} 0.8233, n_D^{20} 1.4073, evolves considerable amts. of H_2 , 14.89, 41.1, 58.1% in gas at 250, 275, 325°, resp.; liquid fractions are less than 88, 88-116, 116-120, 120-132.5, 132.5-180, 180-190, more than 190, all of low d. and high I no., consisting mainly of unsatd. C_8H_{16} , $C_{10}H_{18}$, $C_{12}H_{22}$, and their condensation products, H_2 0.42 to 10.0%, from 225 to 325°. (3) n -ButOH, b. 113-115, d_{20}^{20} 0.8112, I no. 0, yields only very small amts. of H_2 , 1.9, 4.7, 3.7% in gas at 275, 290, 275°. The reaction consists mainly in dehydration with subsequent isomerization into $n-C_4H_{10}$, C_4H_8 , C_3H_6 , C_2H_4 , H_2 , as the gas; the dehydrogenation effect is much less marked, the drop in both H_2 and C_4H_{10} , C_4H_8 from 200 to 275° is noteworthy. (4) $MeOH$, b. 64.5-66°, d_{20}^{20} 0.7925, I no. 0.71, at 100, 250, 275, 325, 365°, yields 0.3, 21.6, 39.2, 75.5, 82.1% H_2 in gas; in contrast to octanol, only insignificant amts. of unsatd. compds., 0.1-0.2%, are evolved. (5) In the 6-contg. gasoline, from which aldehydes and phenols have been previously removed by washing with $NaOH$ soln., evolution of H_2 under the action of $ZnCl_2$ must be ascribed mainly to the presence of satd. alics. and cyclic ketones.

N. Thom

ABB-VKA - RETRIEVAL LITERATURE CLASSIFICATION

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BULGAKOVA, N. G.
 13

Carbide sludge for decreasing the concentration of mercury vapor in buildings. N. G. Bulgakova. *Gigiena i Sanit.* 11, No. 9, 56-7 (1946).--Carbide sludge in the wet state is very effective. Covering the affected area with a 5-cm. layer of the wet sludge lowers the Hg vapor concn. almost to 0 in an open vessel and to 13-27% in a closed vessel as a result of very effective coating of the Hg droplets by the sludge. On drying, the entire mass solidifies without cracks; this is another favorable feature. Dry sludge powder in a 15-cm. layer is as effective as a 5-cm. layer of wet sludge. The effect lasts for at least 14 months. G. M. Kosolapoff

ASS. S. L. A. METALLURGICAL LITERATURE CLASSIFICATION

EXCERPTA MEDICA Sec 17 Vol 5/3 Public Health Mar 59

829. THE WORK OF THE CHILDREN'S SWIMMING SCHOOLS OF MOSCOW
(Russian text) - Bulgakova N. I. - TEORIYA I PRAKT. FIZ. KULT. 1957,
4 (286-290)

USSR swimmers with their results lag behind the swimmers of other nations, particularly the Japanese, Americans, Dutch and Australians. The better results of the latter swimmers are due mainly to the high class of the young swimmers. Youngsters at the age of 13-14 yr. in Holland and in Australia have obtained results putting them into the world class. The author studied the work of several swimming schools for children in Moscow and data pertaining to the fulfilment of the norms established by the Union's swimming classification. 300 cards characterizing the development of the child's sportive abilities were examined. It was found that the training of a swimmer of 3rd-2nd class takes 14.5 months and of 1st class 27 months. The majority of the class swimmers are trained on short distance - 100 m. Only a few swimmers do 400 m. The average age of children in sports schools is 13.5 yr. It is necessary to lower the age of the entrants to the school, considering that world champions began to practise swimming at the age of 7-8 yr. The author regards the time given to training, 45 min. daily, as much too short; 1.5-2 hr. should be allotted to each single training lesson.

(S)

BULGAKOVA, N. V. Engr., RAKOV, K. A., KROL, L. B., PANASENKO, M. D. (Master of Science)

"Experiemental Boiler Plant with 'Once Through' Boiler for Very High Steam Parameters (300 ata 600^o C)," paper presented at the 5th World Power Conference, Vienna, 1956/

In Branch # 5

БУЛАКОВА, Н. В.

AID P - 4953

Subject : USSR/Engineering

Card 1/ Pub. 110-a - 2/21

Authors : Kostrikin, Yu. M., Yu. O. Novi, K. A. Rakov, Kandidats
of Tech. Sci., G. I. Aleynikov, N. V. Bulgakova, V. A.
Taratuta, Engineers.

Title : Results of thermal and chemical tests of a once-through
boiler of 215 and 300 atmospheres.

Periodical : Teploenergetika, 8, 10-13, Ag 1956

Abstract : Data are given on the quality of steam supplied by an
once-through boiler operating at 215 and 300 atmospheres.
The boiler is fed by the turbine condensate mixed with
the cooling calcium-bicarbonate water. The design and
performance of boilers of near critical and super
critical pressures are discussed, and various related
problems are examined. 4 diagrams. 3 references.

Teploenergetika, 8, 10-13, Ag 1956

AID P - 4953

Card 2/2 Pub. 110-a - 2/21

Institution : VTI (All-Union Heat Engineering Institute) and TsKTI
(Central Institute for Boilers and Turbines), Moscow
Branch.

Submitted : No date

BULGAKOVA, N. V.

AID P - 4955

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 4/21

Authors : ~~Bulgakova, N. V.~~, Z. V. Deyeva, and A. M. Prokhorova,
Engineers.

Title : Thermal and chemical tests of a high-pressure once-through boiler fed by salt-free water.

Periodical : Teploenergetika, 8, 17-18, Ag 1956

Abstract : Tests with the above boilers, performed in the All-Union Heat Engineering Institute in February-March 1956, are described. The results of these tests show that the quality of the salt-free water is not worse than the quality of the condensate, and that accordingly the steam supplied by a boiler fed by salt-free water is equal in quality to the steam from a boiler using condensate.

Institution : All-Union Heat Engineering Institute

Submitted : No date

BULGAKOVA, N. V.

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523. VPI EXPERIMENTAL BOILER INSTALLATION AT 300 ATM AND 600°C.
Bulgakova, N. V. and Bulgakova, N. V. (Teploenergetika (Heat Pwr Engng, Moscow),
Feb. 1957, 7-12). An account of the construction of an experimental boiler
installation, using a once-through boiler, for 300 atm pressure and 600°C is
given. Special reference is made to the steels used in its design. (b).

1. Bulgakova, N.V.
RAKOV, K.A., kandidat tekhnicheskikh nauk; BULGAKOVA, N.V., inzhener .

Results obtained from the Vll experimental continuous-operation boiler at 300 atm. and 600°C. Teploenergetika 4 no.3:22-26 Mr '57.
(MLRA 10:3)

1. Vsesoyuznyy teplotekhnicheskii institut.
(Boilers)

Bulgakova, N.V.
AUTHORS: Rakov, K. A. (Cand. Tech. Sc.) and Bulgakova, N.V. (Eng.)²⁵⁴
(All-Union Thermotechnical Institute).

TITLE: Investigation of the working process of a uniflow boiler of the heat and electric power station of the All-Union Thermotechnical Institute with super-critical and super-high pressures. (Issledovaniye rabochego prosessa pryamotchnogo kotla TETs VTI pri sverkhkriticheskikh ei sverkhvysokikh davleniyakh).

PERIODICAL: "Teploenergetika" (Thermal Power), 1957, Vol.4, No.4, April, pp. 21-28 (U.S.S.R.)

ABSTRACT: Internal processes in uniflow boilers operating under super-critical conditions display a number of special features due to the physical properties of water and steam. At a pressure of 300 atm. and a steam temperature of 600°C the specific volume of the working fluid only increases by a factor of ten in the boiler. Because the medium is in a single phase there is no zone of evaporation and the specific heat of the medium is greater than when conditions are sub-critical. Therefore, in boilers operating at super-critical pressure there are no pulsations of output at the coils. Measurements were made of the temperature, pressure and specific heat of the medium in the experimental boiler of the Thermotechnical Institute. Measurements were also made of the thermal loading of the surfaces and of the metal temperature and the hydrodynamics of the medium were

Investigation of the working process of a uniflow ²⁵⁴ boiler of the heat and electric power station of the All-Union Thermotechnical Institute with super-critical and super-high pressures. (Cont.)

investigated in particular parts of the boiler. The distribution of heat absorption between different parts of the boiler was investigated when burning fuel oil and coal dust. The results are presented in the form of graphs for different rates of steaming. When burning fuel-oil, 65 to 70% of the heat is applied to the radiation economiser, this proportion drops to 35 to 40% when coal dust is burned and that of the radiation super-heater increases to 28-33%. The heat transfer of the convective super-heater increases from 6 to 12% when burning fuel oil to 20 to 28% when burning dust. With constant feed water temperature (100°C) and super-heated steam temperature (600°C) intermediate temperatures in the boiler change markedly with change of load because of the increase in the quantity of heat transmitted by radiation in the furnace when the load is reduced. With rapid changes in load there are corresponding changes in the weight of substance within the boiler which leads to the boiler coils being filled with excess of steam or feed water so that even when the delivery of feed water is synchronised with the offtake of steam there are variations in temperature. Displacement of the point of phase transfer is most marked when the proportion of

Investigation of the working process of a uniflow boiler²⁵⁴ of the heat and electric power station of the All-Union Thermotechnical Institute with super-critical and super-high pressures. (Cont.)

heat transmission in the radiation economiser is high. This is partly due to the characteristics of the boiler used, in industrial boilers for super-critical pressure with a feed water temperature of 275-300°C heat transfer in the radiation economiser will apparently not exceed 20% and, therefore, the displacement of the point of phase transfer will be relatively small. An essential question for the reliable operation of uniflow boilers is to ensure that variations of temperature in the coils caused by unequal heating and non-uniform distribution of the medium are small. These temperature variations must be less at super-critical than at sub-critical pressures. This question was investigated and the results are presented in the form of graphs. In the period immediately before running the experimental boiler at a pressure of 300 atm. the possibility was suggested that there might be considerable deterioration in the heat transfer at super-critical pressure. It was, therefore, of interest to determine the external temperatures of the metal of the heating surface in the region of phase transfer. Altogether 53 series of

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Investigation of the working process of a uniflow boiler of the heat and electric power station of the All-Union Thermotechnical Institute with super-critical and super-high pressures. (Cont.)

measurements were made at pressures from 180 to 300 atm, super-heat temperatures of 540-600°C and loads of 6 to 12 tons/hour. The results are presented in the form of graphs and are discussed. The main conclusion is that the measurements of metal temperature show that heat transfer in the boiler is good enough and that the selected brands of steel operate within permitted temperature limits. The hydro-dynamics of the experimental boiler were investigated. Determinations were made of the rate of flow of the medium in the tube of the upper radiation section and of the transitional zone. At sub-critical pressures these parts of the boiler work wholly or partially on a steam water mixture. The results are presented in the form of graphs. There were no pulsations of flow in any part of the boiler over the pressure range of 180 to 300 atm. with either constant or variable load or during starting or stopping of the boiler. The non-uniformity of distribution of water between tubes of the radiation economiser was from 4 to 18% when burning fuel oil. The water distribution in the upper radiation section improved with reduction in the load and the uniformity was then better. This improvement

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Investigation of the working process of a uniflow boiler of the heat and electric power station of the All-Union Thermotechnical Institute with super-critical and super-high pressures. (Cont.)

was caused by considerable increase in the mean specific volumes in the coils of the upper radiation parts with reduction in load and increase in the resistance of the tubes relative to the collectors. The hydraulic resistance of the boiler was quite small when burning coal but somewhat greater when burning oil because the point of phase transfer was displaced. The water flow through a single coil of diameter 32 x 6 mm was 1000 to 1200 kg/hour. In large boilers when the flow through such a coil is 2 to 3 tons/hour the resistance of the boiler should increase to 30 to 40 atm. With increase in load the increase in boiler resistance was almost linear. The resistance of the economiser and the upper radiation part was practically independent of pressure, the resistance of the transitional zone increased with pressure. The experiments on the experimental uniflow boiler showed that uniflow boilers at super-critical pressure are most reliable steam generators. They are more reliable than uniflow boilers working at lower pressures since they work on a single phase medium free from pulsation, stratification and non-uniform distribution of a two-phase medium. With

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Investigation of the working process of a uniflow boiler²⁵⁴
of the heat and electric power station of the All-Union
Thermotechnical Institute with super-critical and
super-high pressures. (Cont.)

identical super-heat temperatures the operating
temperatures of the metal in them are closer to the
mean designed temperature because of improved heat
transmission and smaller temperature variations which
improves the operating conditions of the metal.
14 figures, no literature references.

BULGAKOVA, N.Y., inzh.; DEYEVA, Z.V., inzh.; KOT, A.A., kand.tekhn.nauk; RAEV, K.A.
kand.tekhn.nauk

Using chemically desalted feed water in high-pressure and super-
pressure once-through boilers. Elek.sta. 29 no.3:8-12 Mr '58.
(Feed water) (MIRA 11:5)

PETROSYAN, R.A., kand. tekhn. nauk; SHVARTS, A.L., kand. tekhn. nauk;
BULGAKOVA, N.V., inzh.; SHMUKLER, B.I., inzh.; DEMB, E.P., inzh.

Study of the sliding start conditions of a cold PK-33 once-through
type boiler unit with nondraining shield-type superheater.
Teploenergetika 10 no.9:19-25 S '63. (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy teplotekhnicheskii
institut im. Dzerzhinskogo i zavod imeni Ordzhonikidze.
(Boilers)

PUDOVIK, A.N.; TARASOVA, R.I.; BULGAKOVA, R.A.

Reactions of sodium diethyl thiophosphite with haloallyl
compounds. Zhur. ob. khim. 33 no.8:2560-2563 Ag '63.
(MIRA 16:11)

1. Kazanskiy gosudarstvennyy universitet.

KHLOPLYANKINA, M.S.; LUKOVNIKOV, A.F.; LEVIN, P.I.; Prinimali uchastiye:
VASIL'YEVA, A.G.; BULGAKOVA, T.A.

Increased effectiveness of the combined action of antioxidants
(synergism). Part 2: Basic manifestations of the effect of anti-
oxidant mixtures. Vysokom.soed. 5 no.2:195-200 F '63.

(MIRA 16:2)

1. Institut khimicheskoy fiziki AN SSSR.
(Antioxidants)

ADMISSION NO: AP4017630

S/0190/64/006/002/0201/0205

AUTHORS: Lukovnikov, A. F.; Fedorov, B. P.; Stoyanovich, F. M.; Bulgakova, T. A.; Levin, P. I.

TITLE: Arylamines of the thiophene series with a thioether group as antioxidants

SOURCE: Vy*sokomolekulyarny*ye soedineniya, v. 6, no. 2, 1964, 201-205

TOPIC TAGS: antioxidant, polypropylene, polypropylene antioxidant, thiophene, thenyl compound, thioether group, arylamine, stabilization, functional stabilizing group, phenyl compound, Neozone, sulfide, oxidation, p phenolamine, induction period

ABSTRACT: The performance of sulfides of the thiophene series containing an arylamine group as inhibitors of polypropylene oxidation was studied at 200C in an atmosphere of oxygen. It was found that the arylamines of the thiophene series are generally equal (in some instances even superior) as antioxidants to the commercial Neozones. It was also observed that the presence of a thenyl or a benzyl radical in the arylamine molecule had a favorable effect on the effectiveness of the compound. The sulfides of the thiophene series as such do not possess any anti-oxidative properties in respect to polypropylene. It was also shown that the

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ACCESSION NO: AP4017630

thioether group does not enhance the effectiveness of arylamine either when added separately or when the thioether group forms a part of the amine molecule. The presence of a thioether group in p-aminophenol derivatives results in increased effectiveness of the compounds as antioxidants, especially where the sulfide sulfur is directly bound to the thiophene group. Orig. art. has: 1 table and 3 charts.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR, (Institute of Organic Chemistry AN SSSR); Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics AN SSSR)

SUBMITTED: 19Jul62

DATE ACQ: 23Mar64

ENCL: 00

SUB CODE: CH

NO REF SOV: 003

OTHER: 004

Card 2/2

LUKOVNIKOV, A.F.; FEDOROV, B.P.; STOYANOVICH, F.M.; BULGAKOVA, T.A.; LEVIN, P.I.

Inhibiting action of arylamines of the thiophene with a thioether group.
Vysokom.sped. 6 no.2:201-205 F '64. (MIRA 17:2)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR i Institut
khimicheskoy fiziki AN SSSR.

LEVIN, P.I.; BULGAKOVA, T.A.

Mutual strengthening (synergism) of antioxidants. Part 4:
Increased effectiveness in mixtures containing esters of
pyrocatecholphosphorous acid. Vysokom soed. 6 no.4:700-
705 Ap '64. (MIRA 17:6)

1. Institut khimicheskoy fiziki AN SSSR.

L 10795-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 ASD(p)-3/AMD/Pb-4/RAEM(i)
RM
ACCESSION NR: AP4032570 S/0190/64/006/004/0700/0705

AUTHORS: Levin, P. I.; Bulgakova, T. A.

TITLE: Mutual strengthening (synergism) of antioxidants. 4. Increased efficiency
in mixtures containing esters of pyrocatecholphosphorous acid

SOURCE: Vy*sokomolek. soyedn., v. 6, no. 4, 1964, 700-705

TOPIC TAGS: antioxidant, polypropylene antioxidant, pyrocatecholphosphorous acid ester, phosphite ester, alkyl acyl antioxidant, mercaptan additive, sulfide additive, disulfide additive, synergism, oxidation induction period/ SaO 6 additive, DiSaO 6 additive, Santonox

ABSTRACT: It was shown in an earlier publication by P. I. Levin and associates (Vy*sokomolek. soyed. 5, 1152, 1963) that the antioxidant effect of pyrocatecholphosphorous acid esters was substantially enhanced by the addition of 2,2'-thio-bis-(6-tert. butyl-4-methylphenol)(SaO-6). The present study deals with the effects of pyrocatecholphosphorous acid esters on the structure of the radical and with the enhancing effects of phenolsulfides, disulfides, and mercaptans. The performance of these antioxidants was studied on isotactic molten polypropylene at 200C and an oxygen pressure of 200 mm Hg. The list of antioxidants included

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ACCESSION NR: AP4032570

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pyrocatecholphosphoric acid (PCPA), phenyl pyrocatecholphosphite (PPCP), p-methylphenyl pyrocatecholphosphite (MPPCP), p-tert.butylphenyl pyrocatecholphosphite (BPPCP), 2,4,6-tri-tert.butylphenyl pyrocatecholphosphite (2,4,6-BPPCP), 2,2'-thio-bis-(6-tert.butyl-4-methylphenol)(SaO-6), 2,2'-dithio-bis-(6-tert.butyl-4-methylphenol)(DiSaO-6), 4,4'-thio-bis-2-(tert.butyl-5-methylphenol)(Santonox), and mercaptobenzimidazole (MBIA). It was determined that at concentrations within the 0-0.05 mole/kg range the induction period changed in proportion to the concentration of the antioxidants. The highest effectiveness was shown by 2,4,6-BPPCP and the lowest by PCPA, with PPCP and BPPCP occupying intermediate positions. Individual enhancing of PCPA, PPCP, MPPCP and BPPCP with SaO-6 had a synergistic effect. Thus, while a 0.01 mole/kg concentration of SaO-6 alone called for an induction period of 160 minutes, and a 0.04 mole/kg concentration of PCPA alone called for an induction period of 30 minutes, the combined effect of both antioxidants in these concentrations caused the induction period to expand to 240 minutes. Tests with a combination of 2,4,6-BPPCP and Santonox also revealed (at a summary concentration of 1%) a pronounced synergistic effect on the performance of these antioxidants. On the other hand, a combination of 2,6-di-tert.butyl-4-methylphenyl-PCPA with MBIA had the opposite effect. The theoretical aspects of these phenomena are discussed at length. Thanks for the preparation of reagents are given to P. A. Kirpichnikov, N. A. Mukmeneva, L. M. Popova, G. Ya. Richmond, A. Ye. Grenberg, and T. A. Frishman.

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L 10795-65
ACCESSION NR: AP4032570

Orig. art. has: 4 charts and 8 formulas.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics,
AN SSSR)

SUBMITTED: 03May63

SUB CODE: OC, GC

NO REF SOV: 002

ENCL: 00

OTHER: 006

Card 3/3

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NO BULGAKOVA, T.I. PROCESSES AND PROPERTIES OF
The formation of cobalt and nickel ferrites. T. I. Bulgakova, Yu. I. Gerasimov, Yu. P. Simanov, and L. I. Klyachko-Gurvich. *Zhur. Obshchei Khim.* (J. Gen. Chem.) 18, 151-64 (1948). Formation of $CoO \cdot Fe_2O_3$ and of $NiO \cdot Fe_2O_3$ by heating either intimate mechanical mixts of CoO or NiO with Fe_2O_3 or chesl mixed pptx. $CoO + Fe_2O_3$ or $NiO + Fe_2O_3$, was investigated by (1) soln. of the reaction mixt. in H_2SO_4 or H_2SO_4 , which dissolves the free oxides but not the ferrites, (2) x-ray analysis, (3) ballistic measurements of the magnetic induction, the ferrites, in contrast to the free oxides, being known to be ferromagnetic. By the 2nd method, the ferrites have the spinel structure, with a lattice const. of 8.37 A. for $CoO \cdot Fe_2O_3$, and 8.32 A. for $NiO \cdot Fe_2O_3$. The $CoO + Fe_2O_3$ mixt., heated 1 and 3 hrs. at 700° , gave, resp., about 8 and 14% ferrite, at 800° , 30 and 45%; $NiO + Fe_2O_3$, 3 hrs. at 800° , about 75%. At 1100° , with CoO , ferritization is almost complete in 6 hrs.; at 800° it is distinctly less and is not complete even after 40 hrs. With NiO , at 1100° , the limit is almost attained in 3 hrs., at 800° ferritization is slower but close to that at 1100° , and becomes practically complete in 30-40 hrs. Plots of the magnetic effect attained as a function of temp., on 1 hr's. heating, show, for CoO , beginning reaction at 700° , increase of the rate up to 850° , some slowing down in the range $850-1050^\circ$, where the curve lies somewhat below that of NiO , then, above 1050° , an increase of the rate above that for NiO . While, after 1 hr's. heating at 1100° , the magnetic effect for NiO is greater than for CoO , this is reversed on more prolonged heating. In 20-30 hrs. at 1100° , ferritization is practically complete in both systems. S. Thom

5

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

1940, 1. 2.

L. L. Khachatryan, T. I. Bulgakova and Ia I. Gerasimov, The reaction of the oxides of cobalt with the oxides of sulfur. 7. 1940.

In this work mixtures of CO_2 and air were passed over the cobalt oxides. Attention was paid to the character of the sulfating products, to the composition of the sulfating gas and also to the influence of a number of factors, including the various conditions to the sulfating oxide.

Lab. of Chem. Thermodynamics Moscow State University
November 19, 1940

SO: Journal of General Chemistry (USSR) 28, (12) No. 9 (1940)

B *BULGAKOVA, T. I.*

PROCESSES AND PROPERTIES INDEX

26

Investigation of the Reactions of Formation of Cobalt and Nickel Ferrites. II. (In Russian.) Ya. I. Gerasimov, T. I. Bulgakova, and Yu. P. Simanov. *Zhurnal Obshchei Khimii* (Journal of General Chemistry), v. 15(81), Feb. 1949, p. 219-223.

Magnetic properties and phase compositions of mixtures of CoO and NiO with Fe₂O₃ and NiO were investigated after heating at 1100°C. for 30 hours. Low solubility of CoO and NiO in spinels of the type MeO·Fe₂O₃ was noted at this temperature. Formation of ferrites rich in iron oxides at 1100°C. proceeds very slowly, which may be explained by dissociation of solid solutions of CoO·Fe₂O₃·Fe₂O₃ and NiO·Fe₂O₃·Fe₂O₃.

Fab. Chem. Thermodynamics, Moscow State Univ. Lomonosov

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED	INDEXED	ABSTRACTED	REPRODUCED
YES	NO	YES	NO

BULGAKOVA, T.I.; BITSIYEVA, I.P.; MIKHAYLOV, V.M.

Study of nickel and zinc ferrite mixtures. Vest. Mosk. un. Ser.
mat., mekh., astron., fiz. khim., 12 no.5:199-204 '57. (MIRA 11:9)

1. Kafedra obshchey khimii Moskovskogo gosudarstvennogo universiteta.
(Nickel ferrates) (Zinc ferrates)

15 2660

29033
S/081/61/000/018/004/027
B104/B101

AUTHORS: Bulgakova, T. I., Guzey, L. S.

TITLE: Magneto-chemical investigation of cobalt-nickel ferrites

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 18, 1961, 34, abstract
18B222 (Sb. "Ferrity. Fiz. i fiz.-khim. svoystva". Minsk,
AN BSSR, 1960, 137-141)

TEXT: The phase composition of Co-Ni ferrites was investigated by
magnetic and x-ray diffraction studies. The formation of solid solutions
of Co and Ni ferrites was established. A constant Curie temperature and
an anomaly of the curve of coercive force in the range of 20 - 50 mole%
of CoFe_2O_4 were found. [Abstracter's note: Complete translation.]

X

Card 1/1

43259

S/189/62/000/006/004/006
D214/D307

24.2200

AUTHORS: Bulgakova, T.I. and Guzey, L.S.

TITLE: A study of the hysteresis curves of cobalt-nickel ferrites

PERIODICAL: Moscow. Universitet. Vestnik. Seriya II. Khimiya, no. 6, 1962, 58-60

TEXT: The influence was studied of the composition and heat and magnetic treatments of cobalt-nickel ferrites $\text{Co}_x\text{Ni}_{1-x}\text{Fe}_2\text{O}_4$ ($x = 0.1-0.8$) on the shapes of the corresponding hysteresis curves. Quenched specimens gave curves with $B_r/B_s = 0.3-0.4$ (B_r - remanent induction, B_s - maximum induction) where B_r/B_s rises slightly as x increases. Specimens reheated to 900°C after quenching and cooled at 50°C/hr gave curves with $B_r/B_s \leq 0.5$ (normal curves) for $x = 0.1, 0.2, 0.7$ and 0.8 . Under the same treatment, specimens with $x = 0.3, 0.4, 0.5$ and 0.6 gave straight lines ($H = 85$ oersted), which, at higher field strengths, gave thin hysteresis curves. Cooling rates of 25° and 100°C/hr resulted in normal curves

Card 1/2

A study of the hysteresis ...

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D214/D307

only. Specimens heated to 700-750°C in a magnetic field and cooled at 300-350°C/hr, gave curves with $B_r/B_s = 0.5-0.7$. There are 2 figures and 1 table.

ASSOCIATION: Kafedra obshchey khimii (Department of General Chemistry)

SUBMITTED: December 29, 1961

Card 2/2

BULGAKOVA, T. I.; GUZEY, L. S.

Hysteresis loop of cobalt-nickel ferrites. Vest. Mosk. un.
Ser. 2: Khim. 16 [i.e.17], no.6:58-60 N-D '62.
(MIRA 16:1)

1. Kafedra obshchey khimii Moskovskogo universiteta.

(Ferrates) (Hysteresis)

S/189/63/000/002/010/010
A057/A126

AUTHORS: Zaytsev, O.S., Bulgakova, T.I.

TITLE: Saturator for the preparation of steam-gas mixtures

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya II, Khimiya, no. 2, 1963,
60 - 62

TEXT: In order to prepare mixtures of a gas and vapors of a liquid with known partial vapor pressure a saturator was constructed for the saturation of an inert gas with steam. The device works on the principle of a saturation "on top" at the boiling point of water. This method was already described in literature. Distilled water flows from a container into a flask, where it is heated to boiling point. The inert gas enters through a glass tube into the boiling water and the gas steam mixture rises to a reflux condenser, which is cooled by water from a thermostate. The excess water condenses in the cooler, while the gas-steam mixture with a partial pressure corresponding to the temperature of the cooler emerges through a heated outlet. The mixture thus has a temperature of 120 - 150°C and is passed to the reaction vessel. The partial pressure is calculated

Card 1/2

Saturator for the preparation of steam-gas mixtures

S/189/63/000/002/010/010
A057/A126

from:

$$P_{H_2O} = P_{atm} \frac{n_{H_2O}}{n_{H_2O} + n_{gas}}$$

where P_{atm} = atmospheric pressure, n_{H_2O} and n_{gas} moles of water and gas respectively in the mixture. The saturation effect of the device was tested with argon - water mixtures at different flow rates and temperatures. The correspondence of experimental and literature data proved that in the interval 23.4 - 85.5°C at a flow rate of 4.32 - 0.78 l/h a saturation of argon with water vapor is attained for $n_{H_2O}/n_{gas} = 0.0282 - 1.38$. There are 1 figure and 1 table.

ASSOCIATION: Kafedra obshchey khimii (Department of General Chemistry)

SUBMITTED: July 4, 1962

Card 2/2

L 9973-65 EWG(j)/ENT(m)/EPF(c)/EPR/ENP(b) Pr-4/Pad/Ps-4 RAEM(a)/ESD(dp)/
ASD(d)/RAEM(t) JD/HW/MLK S/0000/63/000/000/0253/0258
ACCESSION NR: AT4046218

AUTHOR: Bulgakova, T. I. (Moscow); Zaytsev, O. S. (Moscow)

TITLE: A study of the formation of a nickel-magnesium ferrite

SOURCE: Yubileynaya konferentsiya po fiziko-khimicheskomu analizu, Novosibirsk, 1960. Fiziko-khimicheskij analiz (Physicochemical analysis); trudy* konferentsii. Novosibirsk, Izd-vo Sib. otd. AN SSSR, 1963, 253-258

TOPIC TAGS: ferrite, nickel magnesium ferrite, nickel alloy, magnesium alloy, ferrite formation, magnetization, coercive force 21

ABSTRACT: The authors studied the interaction of nickel oxides with MgO and Fe₂O₃ during formation of the ferrite Ni_{0.5}Mg_{0.5}Fe₂O₄ by heating the oxides in argon for 3 hours at temperatures up to 900C. In addition to magnetic and X-ray phase analysis, they used the method of continuous weighing, the technique of which is described in detail. The preparation of the nickel oxides is also discussed. The results of continuous weighing on a special balance showed that the excess oxygen above that corresponding to NiO is liberated from the nickel oxides during ferrite formation. The rate of ferrite formation decreases with an increase in the temperature of formation of the nickel oxides (from 100 to 1000C), as does the magnetization; the latter is probably due to a decrease in the ferrite content

Card 1/2

L 9973-65

ACCESSION NR: AT4046218

from 51 to 35% as shown by X-ray analysis. The coercive force, however, is not significantly affected by the temperature of NiO formation. In all cases, sintering in air for 6 hours at 1000C increased the magnetization 4-7 fold, due to an increase in the ferrite content, and decreased the coercive force by a factor of 5-6. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 10Sep63

ENCL: 00

SUB CODE: MM, IC

NO REF SOV: 006

OTHER: 002

Card 2/2

ZAYTSEV, O.S.; BULGAKOVA, T.I.

Determination of the partial pressure of hydrogen by the
electromotive force method. Zhur. fiz. khim. 38 no 4:1056-
1057 Ap '64. (MIRA 17:6)

1. Moskovskiy gosudarstvennyy univertitet imeni M.V. Lomonosova.

L 57074-65 EMT(1)/EED-2

ACCESSION NR: AP5011854

UR/0189/65/000/002/0063/0068

AUTHORS: Zaytsev, O. S. ; Bulgakova, T.I.

TITLE: The cooling of ferrites in an equilibrium gaseous medium

SOURCE: Moscow. Universitet. Vestnik. Seriya 2, Khimiya, no. 2, 1965, 63-68

TOPIC TAGS: ferrite, gas phase, cooling

ABSTRACT: In order to prevent decomposition and/or damage to the surface of ferrites during cooling, the latter must be cooled in an atmosphere such that the partial pressure of oxygen in it corresponds to the equilibrium oxygen dissociation pressure of the ferrite. The purpose of the present investigation was the determination of an equilibrium gas phase composition consisting of H_2O/H_2

for the ferrite $MnFe_2O_4$, which would insure at all times during cooling an oxygen pressure equal to the equilibrium oxygen pressure of the ferrite. Using the data of G. Economos (J. Am. Ceram. Soc., 38, 241, 1956) values for the ratio P_{H_2O}/P_{H_2}

for a given P_{H_2} were calculated which corresponded to oxygen pressures equal

Card 1/4

L 57074-65

ACCESSION NR: AP5011854

to the dissociation pressures of the ferrite. In order to achieve higher values for the ratio P_{H_2O}/P_{H_2} , the hydrogen gas was diluted with Ar gas, 1:100, prior to its saturation with water vapor. In this case, the required water vapor pressure for an initial hydrogen pressure of 7.6 cm Hg was calculated by equation

$$P_{H_2O} = \frac{\left(\frac{P_{H_2O}}{P_{H_2}}\right) \cdot P_{H_2} \cdot P_{atm}}{\left(\frac{P_{H_2O}}{P_{H_2}}\right) \cdot P_{H_2} + P_{atm}}$$

Here P_{H_2} is the initial pressure of hydrogen and P_{atm} is the atmospheric pressure. Figure 1 shows the graph for lowering of the thermostat and furnace temperatures. Figure 2 shows schematic of the installation. Orig. art. has: 1 table, 2 graphs, and 21 equations.

ASSOCIATION: Moskovskiy universitet, Kafedra obshchey khimii (Moscow University, Department of General Chemistry)

SUBMITTED: 18Jul64

ENCL: 02

SUB CODE: GC

NO REF SOV: 006

OTHER: 003

Card 2/4

L 57074-65

ACCESSION NR: AP5011854

ENCLOSURE: 01

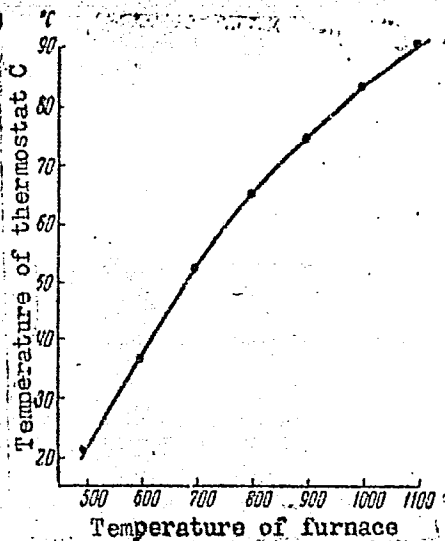


Fig. 1. Graph for lowering of the thermostat and furnace temperatures respectively.

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L 57074-65

ACCESSION NR: AP5011854

ENCLOSURE: 02

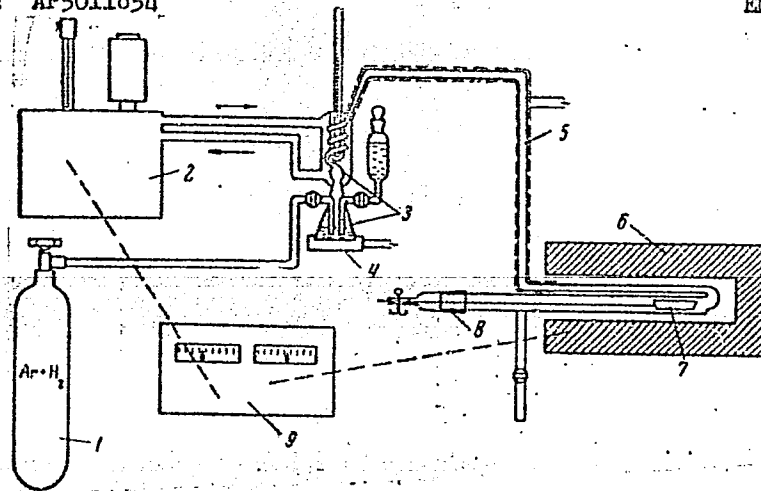


Fig. 2. Schematic of the installation for cooling of ferrites in an equilibrium gaseous medium. 1- hydrogen-argon mixture tank; 2- water thermostat; 3- saturator; 4- heater; 5- heater pipes; 6- furnace; 7- boat with ferrite; 8- ground glass cover with rubber tube and clamp. A Pt wire passes through the tube by means of which the boat may be moved about; 9- semi-automatic programming device for lowering of temperature of the thermostat and furnace

L 54028-65 ENT(1)/EED-2

ACCESSION NR: AP5013526

UR/0076/65/039/005/1253/1256
541.11

AUTHOR: Bulgakova, T. I.; Zaytsev, O. S.

TITLE: Study of the equilibrium of ferrites with the gaseous phase H₂-H₂O.
Part 1. Iron ferrite

10
9
8

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 5, 1965, 1253-1256

TOPIC TAGS: iron ferrite, water vapor, hydrogen reduction, ferric oxide, ferrous oxide

ABSTRACT: The dynamic method was used for studying the equilibrium $FeFe_2O_4 + H_2 \rightleftharpoons 3FeO + H_2O$ at 977°C. A mixture of H₂ and H₂O was passed through the reaction vessel, the partial pressures of both components being known. The water: hydrogen pressure ratio varied from 0.008 to 4, and higher values were obtained by diluting H₂ with argon. The equipment is described in detail. The results are shown in fig. 1 of the Enclosure. As the oxygen content of the solid phase is reduced in the range $x = 1.500-1.290$, the water: hydrogen pressure ratio has high values for very slight changes in composition (part 1 of curve). In the range $x = 1.290-1.106$,

Card 1/3

L 51028-65

ACCESSION NR: AP5013526

a horizontal segment 2 appears which is attributed to the two solid phases FeFe_2O_4 and FeO ; here the vapor pressure ratio is independent of the composition. The sloping portion 3 of the curve indicates the appearance of a solid phase of variable composition for which the vapor pressure ratio changes with the composition. The results were used for calculating the free energy change ΔG^0 for the reduction of FeFe_2O_4 and its dissociation pressure P_{Ox} at 1250°K ; the data are in good agreement with those in the literature. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 18Jul64

ENCL: 01

SUB CODE: GC

NO REF SOV: 006

OTHER: 001

Card 2/3

L 54028-65

ACCESSION NR: AP5013526

ENCLOSURE: 01

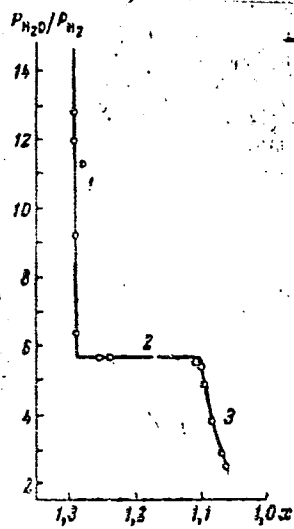


Fig. 1. Equilibrium in the system $FeO_x-H_2-H_2O$ at 977°C

Card 3/3

ZAYTSEV, O.S.; BULGAKOVA, T.I.

Saturator for preparing gas-vapor mixtures. Zhur. fiz. khim. 39
no. 1:245-246 Ja '65 (MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.
Submitted February 24, 1964.

BULGAKOVA, T.P.

Treatment of skin cancer with Gordeev's solution. Vop.onk.1
no.1:110-113 '55. (MLRA 8:10)

1. Iz Voronezhskogo oblastnogo onkologicheskogo dispansera
(gl.vrach--T.P. Bulgakova)

(ANTISEPTICS, therapeutic use,
Gordeev's solution in cancer of skin)
(SKIN, neoplasms,
ther.,Gordeev's solution)

1. EULGAKOVA, V., FEDYANEV, V.
2. USSR (600)
4. Meat Industry
7. Cooperation of science and production. *Mias. ind.* 24, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

YEGOROV, N.S.; POPOVA, O.Ye.; BITTEYEVA, M.B.; BULGAKOVA, V.G.; GOFMAN, K.

Influence of the products of vital activity of bacteria on the growth and antibiotic properties of various actinomycetes. Mikro-biologiya 29 no.2:269-275 Mr-Apr '60. (MIRA 14:7)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni M.V.Lomonosova.
(ACTINOMYCES) (BACTERIA)

TAMBIYEV, A.Kh.; BULGAKOVA, V.G.

Effect of inactivation on the protective properties of
certain antibiotics. Radiobiologiya 3 no.5:754-757 '69.
(MIRA 17:4)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova,
biologo-pochvennyy fakul'tet.

POLIN, A.N.; BULGAKOVA, V.G.; SILAYEV, A.B.

Rapid turbidimetric method for the quantitative determination
of gramicidin C. Antibiotiki 8 no.3:237-241 Mr'63 (MIRA 17:4)

1. Laboratoriya antibiotikov (zav. - dotsent A.B. Silayev)
Moskovskogo universiteta imeni Lomonosova.

GOL'DFARB, Ya.L.; TAYTS, S.Z.; BULGAKOVA, V.F.

New method of synthesizing macrocyclic compounds. Report No.3:
Intramolecular alkylation of 2-(ω -iodalkyl)-5-(carbethoxyacetyl)
thiophenes. Izv. AN SSSR. Ser.khim. no.7:1299-1307 JI '63.

(MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Thiophene) (Alkylation) (Macromolecular compounds)

SHEYNFEL'D, N.M., kand.tekhn.nauk; BULGAKOVA, V.V., inzh.

Remarks on S.S.Krotovskii's book "Field testing of large
precast reinforced concrete construction elements." Bet.i
zhel.-bet. no.6:291-292 Je '60. (MIRA 13:7)
(Precast concrete--Testing)
(Krotovskii, S.S.)

PROCESSES AND PROPERTIES INDEX

Bul GAKOVA, Z. P.

CC

Seed potted in plastic in connection with studies in water regime.
 Z. P. Bulgova (Comm. Acad. Sci. U.S.S.R., 1966, 27, 1066-1047). Following sowing in sand, and storage 240 Feb. 1, seed tubers were subjected to germination in an incubator over H₂O₂ at 20-25° or in a thermostat at 20-25°. Tubers which had about 3-4% of water absorbed in connection to moist sand at 20-25°, while those which had 4-6% of water absorbed only when their water content had been increased in moist sand. The % of malto-ferulic acid in the total sugar content: was 20-23 in ungerminated tubers, 70 at the beginning of sprouting, and 23-29 in sprouted tubers. R. H. H.

ASPLA METALLURGICAL LITERATURE CLASSIFICATION

AL	AM	AN	AO	AP	AQ	AR	AS	AT	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	IJ	JK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL	LM	LN	LO	LP	LQ	LR	LS	LT	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZV	ZW	ZX	ZY	ZZ
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FEL'DMAN, S.N.; BOMBEL', A.V.; ROZENBLAT, O., vrach-laborant;
BULGAKOVA, Yu.A., vrach-laborant

Letter to the editor concerning G.P. Stepanov's article,
"Sterilization of Francke's **needles** by heating for the purpose
of preventing viral hepatitis." Zhur. mikrobiol., epid. i
immun. 33 no.1:158-159 Ja '62. (MIRA 15:3)

1. Zaveduyushchaya laboratoriyey Sanatoriya imeni Ivanova,
Odessa (for Fel'dman). 2. Zaveduyushchiy laboratoriyey
Sanatoriya "Solnechnyy", Odessa (for Bombel'). 3. Sanatoriya
"Yuzhnyy", Odessa (for Rozenblat, Bulgakova).

(STERILIZATION)
(HEPATITIS, INFECTIOUS)

Andreyev, A.; BERIYA, L.; BULGANIN, N.; VOZNESENSKIY, N.; VOROSHILOV, K.;
KAGANOVICH, L.; KOSYGIN, A.; KUZNETSOV, A.; MALENKOV, G.; MIKOYAN, A.;
MOLOTOV, V.; PONOMARENKO, P.; POPOV, G.; SUSLOV, M.; KHRUSHCHEV, N.;
SHVERNIK, N.; SHEKIRYATOV, M.

Andriev Aleksandrovich Zhdanov; obituary. Vypel 11 no.17:1-4
S '48. (MIRA 12:9)
(Zhdanov, Andrei Aleksandrovich, 1896-1948)

BULGAREA, I

BULGAREA, I. Close collaboration with the enterprise committee, a guarantee of our achievements. p. 4.
Vol. 7 no 290, Aug 1955

Bricks and tiles in greater number and of better quality. p. 1.
Activity of the 4th Congress of the Union of Construction Workers and the Building Materials Industry. p.1.

Vol. 7 no. 289, July 1955
CONSTRUCTORUL
Bucuresti, Rumania

So: Eastern European Accession Vol. 5 No. 4 April 1956

BULGAREA, I.

First pneumatic conduits in our country have been put into service, also other technical innovations in the cement factory Ilie Pentilie-Fieni. p. 2. CONSTRUCTORUL. (Ministerul Constructiilor si Industriei Materialelor de Constructii si Uniunea Sindicatelor de Salariati din Intreprinderile de Constructii) Bucuresti. Vol. 8, no. 348, Sept, 1956.

SOURCE: East European Acessions List, (EEAL), Library of Congress, Vol. 5, No. 11, November, 1956.

BULGAROV, Il'ya Ivanovich, pitomnikovod; MISHURENKO, Aleksandr Gerasimovich, doktor sel'khoz. nauk; VINKITSKIY, S.P., red.

[Growing grafted grapevine seedlings; from work practices on the Suvrov State Farm, Odessa Province] Vyrashchivanie privitykh vinogradnykh sazhentsev; iz opyta raboty sovkhoza imeni Suvorova Odesskoi oblasti. Odessa, Maiak, 1965. 81 p.
(MIRA 18:12)

1. Zamestitel' direktora Ukrainskogo nauchno-issledovatel'skogo instituta vinogradarstva i vinodeliia imeni Tairova (for Mishurenko). 2. Sovkhoz imeni Suvorova Odesskoy oblasti (for Bulgarov).

BULGAROVSKIY, V. A.

36650 Bulgarovskiy, V. Stroyka vysoknykh zdaniy. (Stroitel'stvo zhilogo doma na kotel'nich. Naberezhnom v Moskve). Ill. A. katkovskiy. Tekhnika - molodezhi, 1949, No. 11, c. 1-5

SO: Letopis' Zhurnal' nykh Statey, Vol. 50, Moskva, 1949

BULGAROVSKIY, V.A., inzh.

Constructing a multistoried apartment house on Kotel'niche-
skaya Quay in Moscow. Stroi.prom. 27 no.12:7-11 D '49.

(Moscow--Apartment houses)

(MIRA 13:2)

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 13, 1958, 82542

Author : Bulgartsev, G.N.

List : -

Title : On the Agricultural Technique of Growing Grape Plants.

Orig Pub : Sad. i ogorod, 1958, No 1, 63-64

Abstract : For Moldavia, transplanting of grape grafts is recommended when the soil temperature rises to 18-20°. Water for irrigation must have a temperature of not lower than 20-22°. In planting, the place of the union of the grafts should be 8-10 centimeters above the ground.

Card 1/1

BULGARU, Mircea

Harmonious union of industry and agriculture in the complex development of the Rumanian economy. Probleme econ 17 no.8: 129-141 Ag '64.

1. Deputy Director General, Central Statistical Directorate.

BULGATOV, A.N.

Age of basalts in the basin of the upper reaches of the Vitim
River. Kraeved. sbor. no.6:48-53 '61. (MIRA 15:2)
(Vitim Plateau--Basalt)

BULGARIA, P.P.

Reviews. Geol. i geofiz. no.7:138-139 1965.

(MIRA 18:9)

BULGATOV, Andrey Vasil'yevich; ZUBAKINA, T.I., red.; BATOTSYRENOVA,
D.B., tekhn.red.

[Arshan Health Resort] Kurort Arshan. Ulan-Ude, Buriatskoe
knizhnoe izd-vo, 1959. 127 p. (MIRA 13:9)
(ARSHAN--DESCRIPTION)
(HEALTH RESORTS, WATERING PLACES, ETC.)

BULGATOV, Andrey Vasil'yevich; KURMAYEVA, V.M., red.

[Arshan Health Resort] Kurort Arshan. Ulan-Ude, Buriatskoe knizhnoe izd-vo, 1964. 139 p.
(MIRA 18:1)

BULGAY, Boris Martynovich -- awarded sci degree of Doc Tech Sci for the
19 Jun 57 defense of dissertation: "Examination [issledovaniye] and
normalization of the cleanliness of wood surfaces" at the Council,
Mos Timber-Tech Inst; Prot No 14, 31 May 58.
(BmVO, 11-58,18)

BUL'GIN, I.A.

~~MECHANISM OF INFLUENCE OF INTEROCEPTORS ON SPINAL CUTANEO-MUSCULAR REFLEXES. FIZIOL. zh. SSSR 37 no.5:587-597 Sept-Oct 51. (CMLL 21:4)~~

1. Department of General Physiology, Institute of Experimental
Medicine, Academy of Sciences USSR, Leningrad.

BULGURNOV, K.

Fish fauna in the rivers of Vitosha Mountains and the adjacent dars; with a zoogeographic map. p. 153.

IZVESTILA. Sofia, Bulgaria, Vol. 7, 1958

Monthly List of East Accessions (EAI) LC, Vol. 9, No. 1 January 1960

Uncl.

BULBARKOV, K.

Hydrologic peculiarities of Lake Sreburna Reservation and composition of its fish fauna. p. 251.

IZVESTIYA. Sofia, Bulgaria, Vol. 7, 1958

Monthly List of East Accessions (EEAI) LC, Vol. 9, No. 1 January 1960

Uncl.

BULGURKOV, K.

The system, biology, and zoogeographic propagation of the fresh-water lobsters of the Astacidae and Potamonidae families in Bulgaria. Izv Zool inst BAN 10:165-192 '61.

(EEAI 10:9/10)

(Biology) (Zoology) (Lobsters)

BULGURKOV, K.

Biology of *Bothriocephalus scorpii* (Muller) in turbot.
Izv Inst ribovud BAN 3:253-264 '63.