ZHADAN, A.M., Cand Agr Sci -- (diss) "Effect of hearty, the shortness of feeding on the digestibility, metabolism, and fattening qualities of hogs." Kiev, 1958 (Min of Agr UkSSR. Ukrainian Acad of Agr) 100 copies (KL, 28-58, 108)

= 61 =

ZHADAN, A. V.

Cand Agr Sci - (diss) "Effect of fresh beer yeasts on the fatness of milk; the digestibility and metabolism under different feeding of cows." Leningrad, 1961. 16 pp; (Ministry of Agriculture RSFSR, Leningrad Agricultural Inst); 150 copies; price not given; (KL, 6-61 sup, 231)

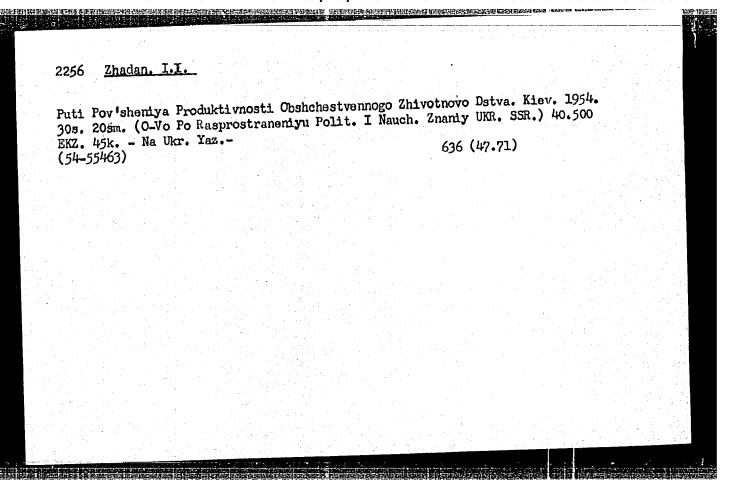
<u> </u>	OULYY,	M.F., akademik; PSHENICHNYY, P.D., akademik; VASILENKO, D.Ya., kand.sel'skokhozyaystvennykh nauk; ZHADAN, A.V.; CHIZHSKAYA, G.Ya.
		Stimulating the formation of butterfat in cows by diversified rations containing brewer's yeast. Zhivotnovodstvo 19 no.12:34-36 (MIRA 10:12)
		l.Ukrainskaya akademiya sel'skokhozyaystvennykh nauk i Institut biokhimii AN USSR. (Cows-Feeding and feeding stuffs) (Yeast)

BODROV, Vikentiy Alekseyevich; GRIGOR'YEV, Sergey Nikolayevich;
KOVAL', V.D., retsenzent; ZHADAN, G.M., retsenzent;
KUZ'MINA, V.S., red.; KISINA, Ye.I., tekhn. red.

[Processing of raw whale products on whale factory ships]
Pererabotak kitovogo syr'ia na kitobazakh.

Moskva, Pishchepromizdat, 1963. 362 p.

(Whalere) (Whale products)



ROMANENKO, I.N., prof.; CHAYKOVSKIY, A.F. [Chaikovs'kyi, A.F.], kand. ekon. nauk; MEL'NIK, O.K. [Mel'nyk, O.K.], st. nauchnyy sotr.; USTINOVSKAYA, L.T. [Ustynovs'ka, L.T.], kand. sel'khoz. nauk; SERIDKO, A.M., kand. biol. nauk; ZHADAN, I.I., kand. sel'khoz. nauk; SEREDENKO, B.M., kand. tekhn.nauk; NIZHNIY, M.I., kand. ekon. nauk; OBZHELYANSKIY, S.Ya. [Obzhelians'kyi, S.IA.], kand. ekon. nauk; PUDENKO, G.I. [Pudenko, H.I.]; LYSYY, Yu.B. [Lysyi, IU.B.], red.; POTOTSKAYA, L.A. [Pototska, L.A.], tekhn. red.

[Intensified specialization of farm production within a district as exemplified by Khorol District, Poltava Province] Ukrains'kyi naukovo-doslidnyi instytut ekonomiky i organizatsii sil's'koho hospodarstva. Vnutriraionna pohlyblena spetsializatsiia sil's'-kohospodars'koho vyrobnytstva; na prykladi Khorol's'koho raionu, Poltavs'koi oblasti. Kyiv, Vyd-vo UASHN, 1962. 222 p.

1. Kiev. Ukrains'ka Akademiya sil'skohospodars'kykh nauk.
2. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Romanenko). 3. Nachal'nik Khorol'skogo teritorial'nogo proizvodstvennogo kolkhoznosovkhoznogo upravleniya, Poltavskaya oblast' (for Pudenko).

(Khorol District—Agriculture)

N, Ivan Ivano [Horse bree hospodars']	eding] Konia koi lit-ry Uk	rstvo. Kyiv rains'koi RS (Horse bree	Derzh.v. B, 1957. a ding)	yd-vo sil 213 p. (1	l'ako- (IRA 11:	1)		
							4	

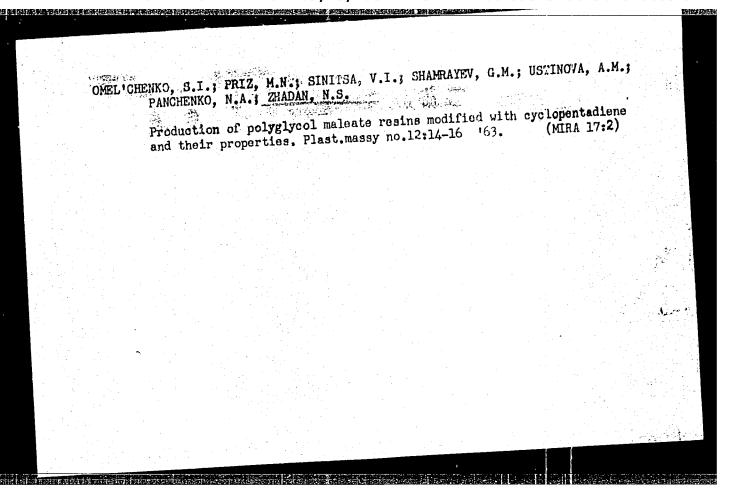
ZHADAN, M. G.

36978. Tsitologiya Gonorroynogo Otdelyayemogo pri Sul'fo- i Pemitsillinoterapii.
Uchen. Zapiski (L'vovsk. Nauch.-issled. Kozhno-venerol. In-t), t. II. 1949,
c. 54-58

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

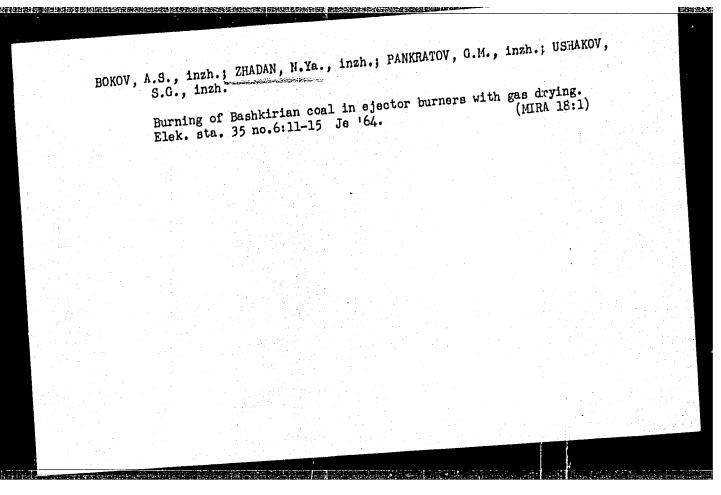
OMEL'CHENKO, S.I.; PRIZ, M.N.; SHAMRAYEV, G.M. [Shanrayev, H.M.]; ZHADAN, M.S.

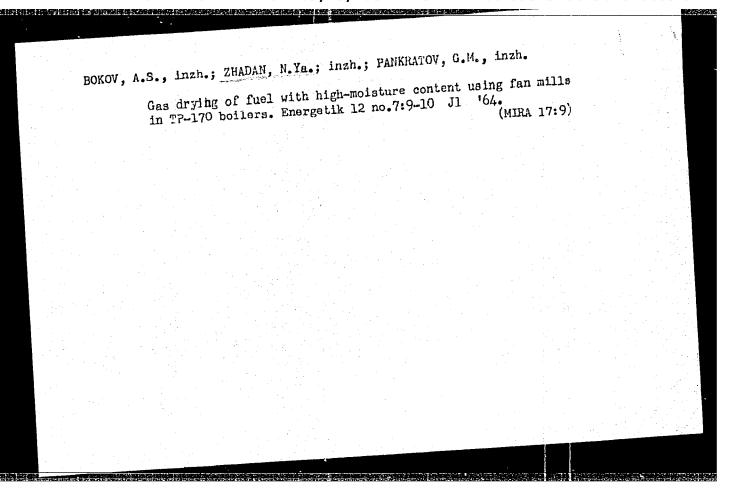
Effect of cross-linking polymers on the characteristics of polyglycolmaleate bonding agents for glass plastics. Khim. prom. [Ukr.]
glycolmaleate no.3:30-33 J1-S '64.

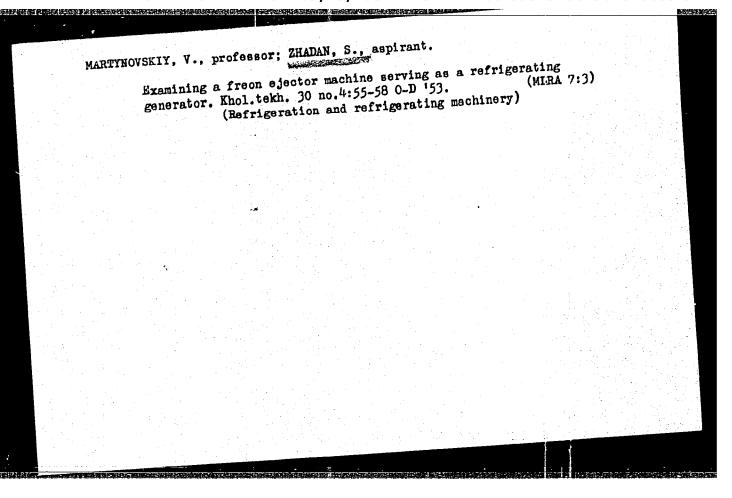


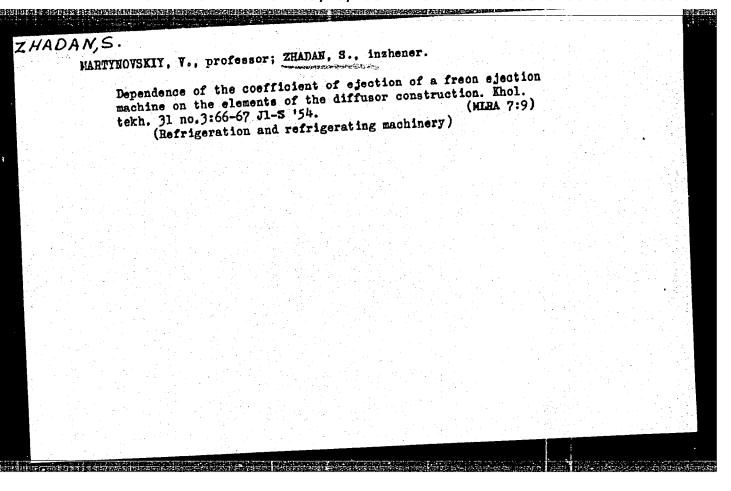
202 66 EWP(1)/EV	WT(m)/ETC(m)=6/T IJP(c) RM/WW/GS (A) SOURCE CODE: UR/0000/65/000/000/0132/0135
CC NR: AT6006253	(A) SOURCE CODD: I.; Priz, H. N.; Shamrayev, G. H.; Zhadan, N. S.; Kovalenko,
Omel'chenko, S. V. D.; Shantgay, T. G.	1.; Priz, n;
	icomechanical properties of PNTs resins and glass textolites is influence of the atmosphere
t A AN PILLE OUC	or an experience of the first of the control of the
	olite, polymer, solid mechanical property, synthetic material
ABSTRACT: The changes PNTs-2E-6- and PNTs-2E investigated during the control of the control of the changes 2E-6 resin is based	in physicomechanical properties of unsaturated polyester of physicomechanical properties based on these resins were D-6 resins and glass textolites based on these resins were neir aging in natural and artificial atmospheres. The PNTs-neir aging in natural and artificial atmospheres of the properties

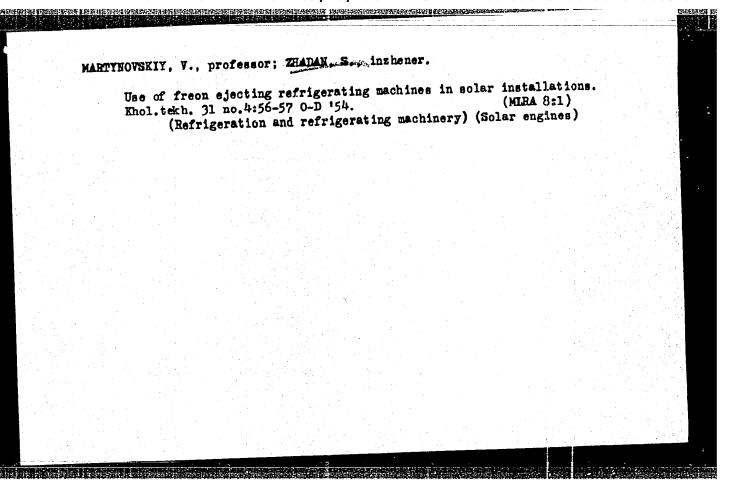
L 21822.66 CC NR: AT6006253		aleic anhydride. The to n with 40 parts of styr ining 3% isopropylbenze	ests were conducted on ene. They were set at	9
amples composed com temperature of 8% styrene sol nours at 100°C. to September 1964 4670-62), compres	from a mixture cont ution of cobalt nap The aging tests wer The aged samples sion resistance (GC	thenate. These samples conducted by exposure were then examined for ST 4651-63) twisting reik (GOST 9551-60). It	were next held for 4 to atmosphere from Apr Brinell hardness (GOST-4648-63 found that exposure the property of	oil [- 3),
mechanical proper PNTs-2E-6 resin.	rties. The most los The glass textoli r six months exposu	es also suffered small e to atmospheric aging on the resin properties ig. art. has: 3 tables.	losses in physicomecha conditions. The artif similar to that of th	n1- i-











14(1)

SOV/66-59-2-29/31

AUTHORS:

Zhadan, S., Melitser, L.

TITLE:

Adjustment of Capacity and Cold Production of a Compressor (Regulirovaniye moshchnosti i kholodoproizvoditel'nosti kompressora)

PERIODICAL:

Kholodil'naya tekhnika, 1959, Nr 2, pp 76-78 (USSR)

ABSTRACT:

The article refers to 2 foreign proposals: one aims at maintaining constant capacity of the compressor at variable temperature of condensation (William L. McGrath), "Electrical Demand in AC Equipment", "Refrigerating Engineering", 1957, Nr 2). In accordance with the other proposal it appears to be possible to maintain constant either the cold-producing capacity of the installation, or the power which it consumes at a variable temperature of evaporation ("Refrigeration Capacity", "Modern Refrigeration", 1957, Nr 8, p 342).

There are 2 graphs and 1 schematic diagram.

Card 1/1

ZHADAN, S.Z., kand.tekhn.neuk, dotsent

Thermodynamic analysis of the possibility of the disposal of waste heat for the compression of gases. Trudy OTIP 1 KHP 8 no.1:33-36 '57. (MIRA 12:8)

MINIMULE EXPERTS THE PROPERTY OF THE PROPERTY

1. Kafedra kholodil'nykh mashin Odesskogo tekhnologicheskogo instituta pishchevoy i kholodil'noy promyshlennosti.
(Compressed air) (Waste heat)

ZHADAY, 2. Z.

ZHADAY, 2. Z.

ZHADAY, 3. Z. - "Use of Low-potential Heat to Produce Cooling in a Freen Ejector Rachine."

Ein of Higher Education User, Rescor Power Instituent V. N. Moletov, Rescor, 1959 (Dissertations For Degree of Candidate of Technical Sciences)

SO: Enizhnaya Letoois' No. 26, June 1955, Rescor

\$/202/63/000/001/001/006 E202/E192

AUTHORS:

Zhadan, S.Z., Taganov, K., and Davletov, A.,

PRODUCTULE CONTROL OF THE PRODUCT OF

Tsybul'skiy, O.T. (deceased)

TITLE:

Freon ejector of low output

PERIODICAL: Akademiya nauk Turkmenskoy SSR. Izvestiya. Seriya

fiziko-tekhnicheskikh, khimicheskikh i geologicheskikh

nauk. no.1, 1963, 6-14

A detailed analysis of the performance of a recently TEXT: built solar refrigerator working on the ejector principle has been carried out. A special installation was built which permitted measuring three specific coefficients of ejection u, as functions of pressure in front of the nozzle Pp, pressure of the ejected vapor Po, and the counter pressure Pk. The experimental installation consisted of a gas circuit with a relatively high pressure in front of the ejector nozzle generated by a compressor 2Φ8-6.5 (2FV-6.5). A buffer capacity was arranged between the compressor and the ejector in order to reduce pulsation. In the first series of experiments, in which two characteristics were measured, viz. $u = u(P_0)$ and $u = u(P_k)$, the manometric fluid Card 1/3

CIA-RDP86-00513R001964520009-5" APPROVED FOR RELEASE: 09/19/2001

Freon ejector of low output

S/202/63/000/001/001/006 E202/E192

used was mercury. Since it was impossible to differentiate between the various velocity losses in the ejector due to their complex character, the total losses were expressed by means of an auxiliary coefficient determined from the expression

$$u = \varphi^{1} \sqrt{\frac{up}{u_{k}}} - 1.$$

The heat loss was calculated from the temperature entropy diagram using a specially large scale to improve the accuracy. In the second part of the experiments, when mercury was replaced by an aqueous solution of calcium chloride, in addition to the above relations, the relation between u and $u(P_p)$ was studied. It was found that after reaching the limiting value u decreased. On analyzing all the three characteristic relations - $u = u(P_0)$; $u = u(P_k)$ and $u = u(P_p)$ it was noticed that the first one, after achieving sonic conditions, continued to increase but at a slower rate; the second remained constant while the third decreased. The velocity loss coefficients behaved in a similar way. Card 2/3

Freon ejector of low output

S/202/63/000/001/001/006 E202/E192

All the experimental data are tabulated and the ejector characteristics for varying pressures and counter-pressures plotted. Conclusion. The 1000 kcal/hour cold output solar freon ejector refrigerator with a 1.6 mm critical cross-section of the nozzle designed for the Physicotechnical Institute AS Turkmen.SSR by the Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'-noy promyshlennosti (Odessa Technological Institute of Food and Refrigerating Industry) is suitable in every respect for mass production without any further modifications. There are 7 figures and 6 tables.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR (Physicotechnical Institute AS Turkmen.SSR)

SUBMITTED: May 16, 1962

Card 3/3

IL'CHENKO, S.G., otv. red.; CHUKLIN, S.G., zam. otv. red.; RYZHENKO, L.P., red.; BADYL'KES, I.S., red.; ALEKSEYEV, V.P., red.; VEYNBERG, B.S., red.; GOGOLIN, A.A., red.; MEL'TSER, L.Z., red.; ZHADAN, S.Z., red.; NAYER, V.A., red.; MINKUS, B.A., red.; **BARENBOYM, A.B., red.; NIKUL'SHINA, D.G., red.

HUBERT BEER HEITE HER BEER BEREICH BEREICH BEICH BEREICH B

[Transactions of the Conference on the Outlook for the Development and Introduction of Refrigerating Equipment into the National Economy of the U.S.S.R.] Trudy Konferentsii po perspektivam razvitiia i medreniia holodil noi tekhniki v narodnoe khoziaistvo SSSR. Moskva, Gostorgizdat, 1963. 262 p. (MIRA 18:3)

1. Konferentsiya po perspektivam razvitiya i vnedreniya kholodil'noy tekhniki v narodnove khozvevstvo SSSR. Odessa. 1962.

2 Odesskiy tekhnologicheskiy institut pishchevoy i kholodnoy
promyshlennosti (for Minkus, Barenboym, Chuklin, Nikul'shina,
Zhadan). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut
kholodil'noy promyshlennosti (for Gogolin, Badyl'kes).

ZHADANTA.

133-6-24/33

AUTHORS: Babakov, A.A., Zhadan, T.A., Danilin, V.A., Bakuma, S.F., Antipov, K.I., Kul'kova, M.N. and Kupryakhina, S.Z.

TITLE: An improvement in the technology of production of high-chromium plates. (Uluchsheniye tekhnologii proizvodstva

vysokokhromistogo tolstogo lista).

PERIODICAL: "Stal'" (Steel), 1957, No.6, pp.555-559 (USSR).

ABSTRACT: Optimum conditions of rolling and subsequent heat treatment of plates from steels X25T, X28 and X28 with nitrogen, under which the metal would attain mechanical properties satisfying TY5227-55 and good quality cutting and straightening properties in cold state, were investigated. The ening properties in cold state, were investigated. The following participated in the work: Engineers B.Z.Kononov, V.V.Turitsyn, P.N.Sporyshkov, A.P.Okenko (*Krasnyy Oktyabr*) and technician V.I.Shashina (TsNIIChM). It was found that in order to obtain steel plates of required properties slabs should be rolled in a temperature range from 980 to 1000 C - 720 to 800 C with cooling of plates in air. Thermal treatment: a preliminary annealing at 760-780 C for 12-16 hours followed by hardening of each plate (individually) in water after heating the metal to the same temperature (soaking time 3 min per 1 mm thickness of the plate). Chemical composition of steel from the heats

Card 1/2

An improvement in the technology of production of high-chromium plates. (Cont.) 133-6-24/33

investigated is given in Table 1, mechanical properties of plates tested in Tables 2 to 6 and some examples of microstructure obtained under various conditions of processing in Figs. 2 to 4.

There are 6 tables and 4 figures.

ASSOCIATION: TsNIIChM and "Krasnyy Oktyabr'" Works. (TsNIIChM i zavod "Krasnyy Oktyabr'").

AVAILABLE: Library of Congress

Card 2/2

S/184/60/000/004/301/021 A109/A029

AUTHORS:

TITLE:

Babakov, A.A., Candidate of Technical Sciences; Zhadan,

Graduate Engineer

Use of Non-Deficient High-Chromium Stainless Steels

PERIODICAL: Khimicheskoye Mashinostroyeniye, 1960, No. 4, pp. 2 - 4

TEXT: The authors discuss the increased demand for high-alloyed 1\18H9T (1Kh18N9T) and 1\18H12M2T (1Kh18N12M2T) stainless steels and the necessity of obtaining full-value substitutes containing little or no deficient nickel. In this connection high-chromium \(\chi(17T)\)\(\chi(17T)\)\(\chi(25T)\)\(\chi(25T)\)\(\chi(25T)\)\(\chi(28T)\)\(\chi(

Card 1/7

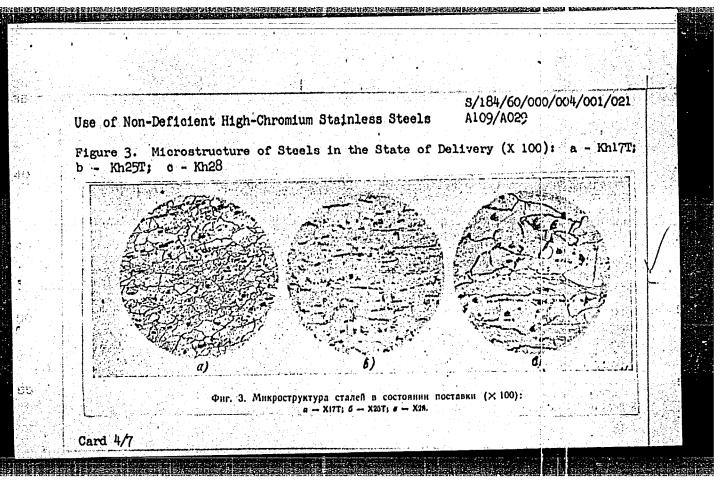
S/184/60/000/004/001/021 A109/A029

Use of Non-Deficient High-Chromium Stainless Steels

of austenitic steel at 1,200°C, whereas contraction and expansion characteristics were higher. As a result of these tests ferrite steel slabs are now rolled at 1,000°C which slows down the crystallization process. In spite of lower temperatures, stress resistance remains unchanged and the rolling-mill engine load does not exceed the permissible limits. Recently obtained heat processing conditions to Kh17T and Kh25T thick steel sheets are: preheating 780 - 820°C, heating time 3 min/mm and water cooling. By improved methods fine-grained, highplastic steel sheets were produced which can be cold cut, drawn and rolled. Cast Kh28 high-chromium steel without titanium has a pronounced macrostructure. Low-temperature rolling and subsequent double thermal processing at 780°C for 10 - 15 h improved its plastic properties though its resilience remained low. This type of processing can be applied to other ferritic metals or more than 10 mm thickness. The microstructure of ferrite steels after rolling and heat processing is shown in Figure 3. A table shows the chemical composition and mechanical properties of ferrite chromium steels after thermal processing. Wider assimilation of these steels depends on improved production methods and on the development of reliable welding methods. Most favorable welding methods obtained by tests carried out by NIIKhIMMASh and GIAP are mentioned in Reference 3. Highchromium steels are suited for the production of welded chemical equipment oper-

Card 2/7

						•
	Use of Non-Defici	ent High-Chromiu	m Stainless Steel		00/004/001/021	
	ating at static l They are already zavod (Rustavi Ni cheskiy zavod (Al zavod (Moscow Ref stroitel'nyy zavo	oads in acetic, successfully use trate Fertilizer chevsk Coke Chem rigerator Car Pl od (Bolshevo Mach	phosphoric and nid in various plant Plant), Uralkhim ical Plant), Moskant), Moscow "Ide ine Building Plant Plant the Khl7T and	tric acids, alkants: Rustavskiy mmash, Alchevskiy kovskiy avtorefrical" Plant, Bolshot) and others.	koksokhimi- zheratornyy evskiy mashino- It is pointed ill be widely	
	out that ferrite used in chemical references.	machine building	. There are 3 11	igures, i cabie	and J Bovies	1
•						
- '-						



8/184/60/000/c04/001/021 A109/A029

Use of Non-Deficient High-Chromium Stainless Steels

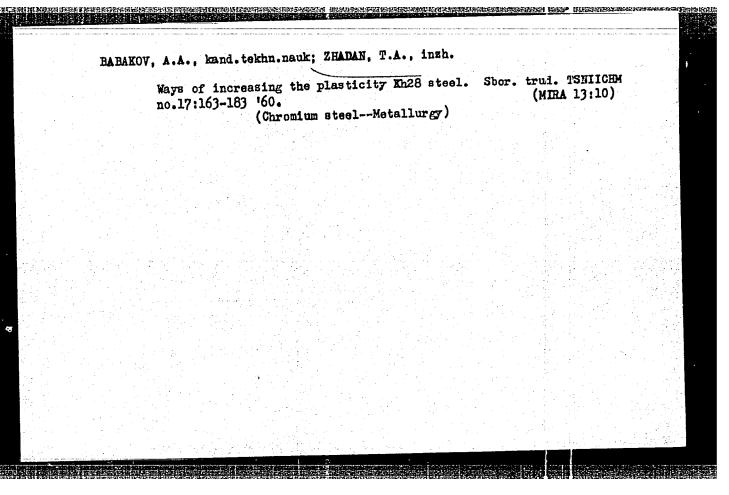
Chemical Composition and Mechanical Porperties of Kh17T, Kh25T and Kh28 Steels in the State of Delivery After Thermal Treatment

	Number	C	cntent o	f Elemen	ts in %		Thickness of Sheet
Steel Grade	of Smelting	С	Mn	Si	Cr	TI	in rum
Kh17T	1835	0.07	0.34	0.56	16.5	0.54	8 10
	2890	0.07	0.50	0.54	16.8	0.50	6
Kh25T	1880 1888 1283 2991	0.09 0.08 0.07 0.08	0.37 0.34 0.50 0.31	0.65 0.58 0.65 0.75	16.8 24.1 24.5 24.1	0.50 0.58 0.65 0.39	6 6 1.0 10
	1887	0.05	0.31	0.64	27.4	•	5
Kh28	1606	0.09	0.37	0.48	27.0		10

Card 5/7

							- /a-ly /a-a- /a-a-	
lise of	Non-Defi	cient His	zh-Chron	nium Stai	inless Steels	S/184/60/00 A109/A029	0/004/001/021	
		1	dechanic	al Prope	erties			
Steel	og in kg/mm²	øs in kg∕mm²	of in %	q in %	ak in k in transverse direction	in longitudinal direction	Magnitude of the Grain	
Grade Kh17T	50.5 51.0 50.5	37.0 36.0 36.0	27.0 22.0 28.0	47.0 48.0 50.0	8.9 11.2 5.5	13.1 13.6 14.8	5 5 5	
Kh25T	51.5 50.0 50.5 61.0 50.0 53.0	36.0 33.7 30.7	29.5 24.4 25.5 22.0 28.0 22.0	59.5 - -	- - 9.7 6.0 6.8	8.0 11.5 11.7 10.8 13.3 10.1	4 - 5 5 - 6 5 - 5 4 - 5 4 5	
Kh28	55.0 55.0 52.0		26.0 30.0 23.5		0.5 0.8 0.6	1.0 0.6 0.7 rmed at cold be	3 - 4 3 - 4 3 - 4	

Use of Non-Deficient High-Chromium Stainless Steels A109/A029 180°C (until contacting of the sides); in the remaining steels of all smeltings cracks were not detected.														
180°C (until contacting of the sides); in the remaining steels of all smeltings cracks were not detected.										S/184/	60/000/c	04/001/0	21	
cracks were not detected.														
		180°C cracks	(until were	. conta not de	cting	of the	sides);	in the	remainin	g steel	s of all	smeltin	gs	
Card 7/7														
Card 7/7														
Card 7/7													1	
$^{ extsf{Card}}$ $7/7$														
$oldsymbol{C}$														
$Card\ 7/7$													V	
Card 7/7														
$Card\ 7/7$														
Card 7/7			ing Historia						da en gi	1.0				
Card 7/7					1.19									
Card 7/7	. 1. 11 . •	14												
Card 7/7														
Card 7/7														
Card 7/7														
		Card 7	7/7											
		//								por amenta e enganco	arrang kanangan sa sa		TOTAL AND THE STATE OF	



89975

S/133/61/000/003/014/014 A054/A033

18.1151

1496 1045

AUTHORS: Babakov, A. A., Candidate of Technical Sciences;

Zhadan, T. A., Engineer

TITLE:

The effect of austenite-forming elements on the properties

of X28 (Kh28) grade steel.

PERIODICAL: Stal', no. 3, 1961, 276 - 279

High-chrome (28.5%) Kh28 grade steel (without titanium) shows a clearly defined, coarse-grained crystal structure in a cost condition, which results in a reduced ductility. High-chrome and titanium-containing ferrite type K17T, X25T (Kh17T, Kh25T) grade steels are also brittle in the welding zone (ak is below 1 kgm/cm²), due to the formation of a coarse structure during welding. In order to improve the ductility of these steels, tests were carried out with Kh28 type steel, adding small amounts of austenita-forming elements, (Ni,MN, N2) and studying its mechanical and corrosive properties under conditions simulating the temperature and holding times of welding. Smelting was carried out in a 30-kg high-frequency furnace, cleaned, 15-kg ingots were forged into rods and slabs,

Card 1/7

89975

S/133/61/000/003/014/014 A054/A033

The effect of austenite-forming ...

the latter were rolled into sheets 4 mm thick. Both processes took place at 1500 - 1100°C. The sheets were heat-treated at 900°C, water-cooled, then rolled to 2 mm thickness. The mechnical properties and tendency to intercrystalline corrosion were tested on specimens heated to 800 - 1000°C (welding) temperature, for two minutes per 1 mm thickness, as well as at 1100 - 1300°C, for 1 min per 1 mm thickness. A change in the mechanical properties and structure could only be observed with an increased nickelcontent, when austenite develops at the border of grains, over the entire volume of the metal, increasing its strength and toughness. Upon studying the temperature effect, it was found that steels alloyed with 2 - 6 % nickel do not change in strength and ductility to any great extent, when the temperature was raised from 800 to 1200°C. The highest values for toughness in X28H6 (Kh28N6), X28H3A (Kh28N3A) and X28H4 (Kh28N4) type steels were observed after heating to 900 - 1000°C. Steels containing max. 3% nickel had a toughness below 1 kgm/cm² irrespective of the heating temperature. Upon increasing the cooling rate (in water), the toughness of the Kh28N4 steel increased by about 10 kgm/cm². Most probably during rapid cooling various intermatallic phases cannot separate from the solid solution, so that the grain borders remain clean and the intercrystalline adhesive forces increase. Increasing the holding time to more than 5 minutes did not Card 2/7

89975

S/133/61/000/003/014/014 A054/A033

The effect of austenite-forming

change the toughness, as; evidently this time is sufficient for the concentration of the solid solution to attain an equilibrium. Repeated heating to high temperatures with subsequent cooling in air only reduced the toughness. The tendency of the steels to intercrystalline corrosion was tested on sheets after various heat treatments (FOCT = GOST 6032-51). The maximum resistance against intercrystalline corrosion was found in Kh28 grade steel, irrespective of heat treatment, when adding 4 - 6 % nickel. Kh28N3A nickel steel also showed sufficient resistance against intercrystalline corrosion and higher toughness. However, when adding 0.23 % N, gaseous blisters form in the ingot. The welding properties of Kh28N4 grade steel of the following chemical composition: C: 0.11 %; Mn: 0.28%; Si: 0.50%; Cr: 28.8 % Ni: 4.1%, were tested. After heat treatment at 900°C and water-cooling the following characteristics were recorded: 68 ,kg/sq mm 70.6; 602, kg/ sq mm; 85,% 17.6; 4,% 34.1; ak ,kgm/sq cm 10.5. Based on the tests it was found advisable to use electrodes made of the X25H13 (Kh25N13) austenite--ferrite type or X27H4A (Kh27N4A) and X25HFB (Kh25NGB) ferrite-austenite grade steel for the Kh25T, Kh28AN and Kh28N4 steels, with a special caoting. Figure 6 shows that the toughness of 6 mm thick Kh28N4 steel sheet decreas-

Card 3/7

89975

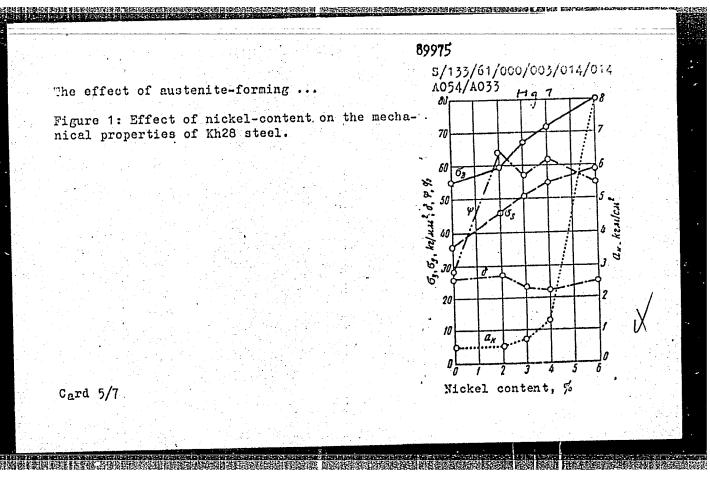
S/133/61/000/003/014/014 A054/A033

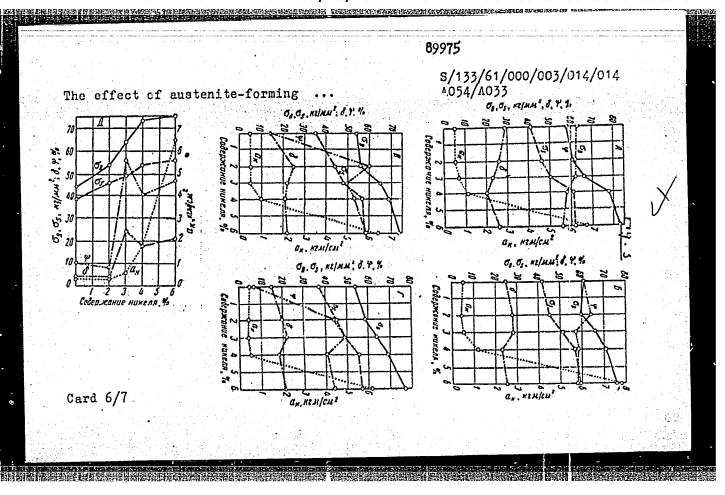
The effect of austenite-forming ...

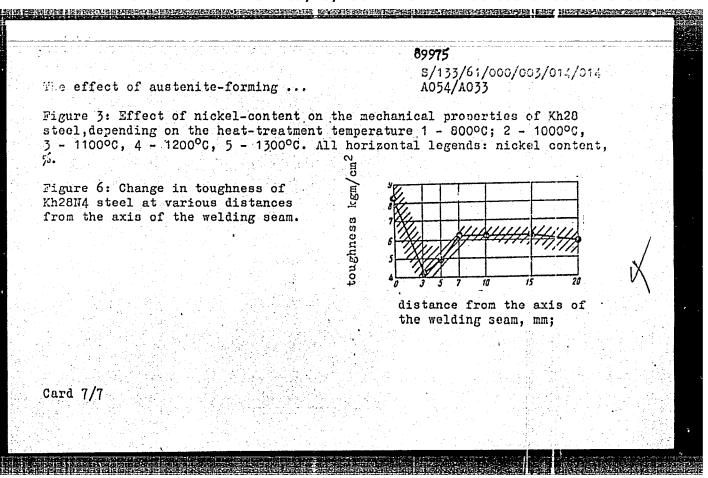
ed to 4 kgm/cm^2 in the welding zone under repeated high temperatures, while it increased when moving away from the seam. Thus, the steel with 4 % nickel content proved to be fairly ductile (a_k about $4-6 \text{ kgm/cm}^2$). Therefore the Kh28N4 steel can be used as substitute for Kh23N12 and Kh23N18 austenite steels for products subjected to high temperatures, without considerable mechanical load, and for chemical equipment exposed to aggressive media. There are 6 figures, 2 tables and 2 Soviet references.

ASSOCIATION: TSNIIChM

Card 4/7







BITTERS BITTER

MESHCHERINOVA, O.N., kand.tekhn.nauk; TRIFONOVA, T.N., inzh.; TCHPAHOVA, G.A., kand.tekhn.nauk; SMIRHOV, Ye.V., inzh.; BABAKOV, A.A., kand.tekhn.nauk; KAREVA, Ye.N., inzh.; ZHADAN, T.A., inzh.; TALOV, N.P., inzh.; TSYPKINA, Ye.D., kand.tekhn.nauk; DONONIS, V.M., inzh.; DAVYDOVA, L.N., inzh.; PRIDANTSEV, M.V., prof., doktor tekhn.nauk, red.; LIVSHITS, G.L., kand.tekhn.nauk, red.; BERLIN, Ye.N., red.izd.va MIKRAYLOVA, V.V., tekhn.red.

[Steels with low nickel content; a handbook] Stali s ponishennym sedershaniem nikela; spravochnik. Pod red. M.V. Pridantseva i G.L. Livshitsa. Moskva, Gos. nauchno-tekhn. izd-vo lit-rj' po chernoi i tsvetnoi metallurgii, 1961. 200 p.

1. Direktor instituta kachestvennykh staley TSentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii im. I.P.Bardina (for Pridantsev).

(Nickel steel)

\$/776/62/000/027/003/004 AUTHORS: Babakov, A.A., Zotova, Ye.V., Zhadan, T.A. A search for steels that are corrosion-resistant in extractive photos TITLE: phoric acid. SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institui chernoy. metallurgil. Shornik trudov. no. 27. Moscow, 1962. Spetskal'nylje stali i splavy. pp. 74-84. The paper reports the results of an experimental investigation of steels that would be suitable for the making of double superphosphate from mineral fluorapatite (asparagus-stone), in which the reaction vessels must resist the aggressiveness of the sulfuric acid used to produce phosphoric acid containing 10-25% P20g, hydrofluosilicic acid with a fluor concentration of 0.6-1.4%, and various compounds (SO3, Fe2O3, Al2O3). Various deformable and nondeformable afloys on a Fe base, containing Cr. Ni, Mo, Cu, Si, and other elements in two- and multi-component systems, were tested. The compositions of the steels are tabulated in detail. Tests were performed in (1) phosphoric acid containing 32% P2O5, 1.8% F, and 2.2% SO3, at 90°C; and (2) in phosphoric acid containing 55% P2O5, 0.8% F, and 4.5% SO₃, at 105-110°, both in the liquid and the vapor phase; the total dura-Card 1/3

A search for steels that are corrosion-resistant.... S/776/62/000/027/003/004

tion of the test was 100 hrs. The structure and the mechanical properties of the deformable steels are summarized in a full-page table; the structure and hardness of the cast non-deformable steels is shown in another full-page table. The results of the corrosion tests of the Fe-Ni alloys, summarized in yet another full-page table, show the favorable effect of the Ni on the corrosion resistance of the steel in phosphoric acid, more especially in the vapor phase thereof. Fe-Ni alloys are essentially little corrosion-resistant and nonresistant materials. The tabulated results of the corrosion-resistance tests of various deformable steels in phosphoric acid show that the corrosion resistance of Cr steels increases with increasing Cr content, whereas Ni-Si steels are not sufficiently corrosion-resistant. The highest corrosion resistance is exhibited by Cr-Ni steels, especially with Mc additions, and by Cr-Ni-Mo-Cu steels. Sormite steels appeared to be unstable. In summary, it is recommended that industrial production tests be made with austenitic steels of the types X18H12M2T [Kh18N12M2T] (3M448 [EI448]), X23H28M2T [Kh23N28M2T] (3M 228 [EI228]), and X23H28M3 [3T [Kh23N28M3D3T] (3M629 [E1629]) in equipment that is used in the production of double superphosphate and required corrosion resistance of the steel and alloys in extractive phosphoric acid, both weak and evaporated. Production tests of the various steels were performed on a number of equipment parts and subassemblies in the experimental factory of the Moscow Scientific Research Institute of Fertilizers, Insecticides, and Fungicides imeni Ya, V.

Card 2/3

A search for stee	ls that are corrosion-re	sistant Ş	/776/62/00D/027/0	003/004
Samoylov. Cross	s-sections of mixer padd	les and of dietre	vition disk of a d	
type vacuum fifte	r tested are shown in ful	l-naga-cina fimis	The vector	_641
COLLOSION FERES 2	now the low corrosion re	Sistance of Cr a	nd Cr-Ni chante ar	مداه الم
-mproved corrosi	on resistance of steels neets of heat treatment or	core highly allow	ad with Car Ni a	A A
ir is concinded in	at in the making of welde	d equipment it fo	important that co	2 a C
MINI OF TOM O COUL	ent inot more than u.u.o.	and Ti additions	// 5. // EU/ 1 h	_1
such steale of th	a forman (TV2211201220) [3771 33373 AL COM3		
Carriage Steels	e cypes Ovrousement	JKN23N28M2T	and OX23FIZ8M3II	-3 T
	e types OX23H28M2T [(T] (3M943 [EI943]),	which crhibit acc	id raciations to be	u dein 1
and intercrystalli	ne corrosion, are highly	which exhibit goo	d resistance to ge	nétal
and intercrystalli	ne corrosion, are highly oric acid containing F c	which exhibit goo	d resistance to ge	nétal
and intercrystalli extractive phosph	ne corrosion, are highly oric acid containing F c	which exhibit goo	d resistance to ge	nétal
and intercrystalli extractive phosph	ne corrosion, are highly oric acid containing F c	which exhibit goo	d resistance to ge	nétal
and intercrystalli extractive phosph	ne corrosion, are highly oric acid containing F c	which exhibit goo	d resistance to ge	nétal
and intercrystalli extractive phosph	ne corrosion, are highly oric acid containing F c	which exhibit goo	d resistance to ge	nétal
and intercrystalli extractive phosph	ne corrosion, are highly oric acid containing F c	which exhibit goo	d resistance to ge	nétal
and intercrystalli extractive phosph	ne corrosion, are highly oric acid containing F c	which exhibit goo	d resistance to ge	nétal
and intercrystalli extractive phosph	ne corrosion, are highly oric acid containing F c	which exhibit goo	d resistance to ge	nétal
and intercrystalli extractive phosph	ne corrosion, are highly oric acid containing F c	which exhibit goo	d resistance to ge	nétal

ACCESSION NR: AR4027946

5/0137/64/000/002/1071/1071

SOURCE: RZh. Metallurgiya, Abs. 21419

AUTHOR: Babakov, A. A.; Gulyayev, A. P.; Zhadan, T. A.; Tufanov, D. G.

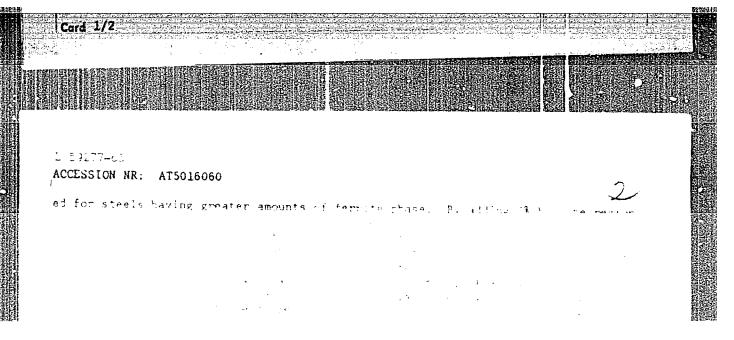
TITLE: Effect of carbon on the properties of Khl6N15M3B stainless steel

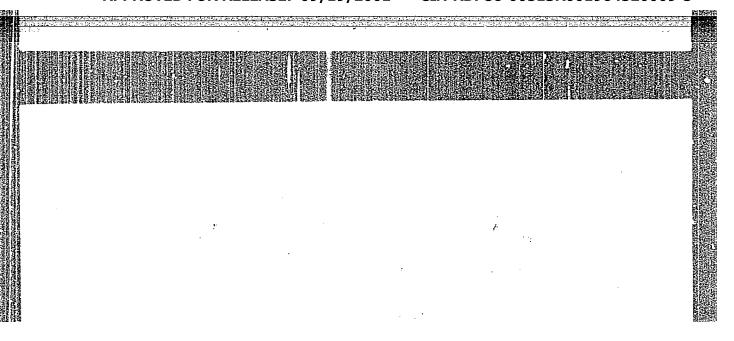
CITED SOURCE: Sb. tr. Tsentr. n.-i. in-t chernoy metallurgii, vy*p. 35, 1963, 63-66

TOPIC TAGS: carbon, stainless steel corrosion, intercrystalline corrosion

TRANSLATION: A study was made of the effect of C content (0.04-0.2%) at a constant ratio Nb:C (> 10) on the mechanical properties and tendency toward intercrystalline corrosion (TIC) of Khl6Nl5M3B steel. In the hardened state, an increase in the C content causes a rise in 6 and 6 and a drop in 6, \$\psi\$, and a t 20 and 350°. This is due to an increase in the amount of carbides present in the steel (which was quenched from 1050°). Soaking at 500° leads to the precipitation of carbides along the grain boundaries and to a drop in a. The rate of decrease in a. is the same for all the steels studied as the duration of soaking increases. Hesting at 550° caused TIC in all the steels, despite the fact that the content of Nt was 10 times greater than that of C. At a C content of 0.04 to 0.07%, TIC appearsd after Cord 1/2

	1 5			A		Sumprise and a series
soaking 150	R: \AR4027946 Ohr, thereas i possible prevent should be st	ntion of TIC	, the C oo	ntent should	o 0.12 to 0.20% Co be lowered to 0.0 (alinkina	For 22-0.3%
DATE ACQ:	19Mar64	r su	B CODE: M	L , "	EXCL: O	
	n a					
	医甲基甲状腺 医二氯甲基磺基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲					





Card 2/2	Plants and the second s	and the product alternative and the second of the second o			The second secon	2013
GULY	AYEV, A.P.; ZH	ADAN, T.A.				
	Possibility of steels. Shor	of replacing ni tend. TSNIIC	ickel by mange IM no.39:109-1	nese in two-	phase stainless (MRA 18:7)	
			.9/2001 (CIA-RDP86-		

<u></u>	A DAMENTA DE CHADAN DE A CHICANOV. D.G.	
	Properties of austenitic chromium-nickel stainless steels. Sbortrud. TSNIIGHM no.39:73-80 165. (MIFA 18:7)	

AUTHOR: Gulyayev, A. P.; Zhadan, T. A.; Mal'tseva, V. S. ORG: none TITLE: The effect of titanium on the phase composition of ferritic-austenitic stailess steels SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgi Shornik trudov, no. 46, 1966. Spetsial'nyye stali i splavy (Special steels and alloys), 37-40 TOPIC TAGS: stainless steel, titanium, ferrite, austenite, carbide phase, phase coposition, impact strength, hardness, saturation magnetization, quenching, tempering temperature dependence / OKh18G8N2T stainless steel, OKh18G8N2 steel ABSTRACT: The effect of 0.4% Ti on the phase composition and mechanical properties OKh18G8N2T stainless steel was studied. Steel samples were quenched from 1200°C and aged to temperatures up to 900°C. Impact strength, hardness and saturation magnetition were given as functions of tempering temperature. The addition of titanium di not change these properties. In the 600-700°C range a sharp drop in impact strengt an increase in hardness and a lowering of saturation magnetization occurred. Elect lytic etching and x-ray analysis showed that TiC formed in the titanium containing	L 04187-57 EWT(m)/EWP(w)/T/EWP(t)/ET ACC NR: AT6026547	I IJF(c) JD SOURCE CODE: UR/2776/66/000/046/0037/0040
TITLE: The effect of titanium on the phase composition of ferritic-austenitic stailess steels SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgi Shornik trudov, no. 46, 1966. Spetsial'nyye stali i splavy (Special steels and alloys), 37-40 TOPIC TAGS: stainless steel, titanium, ferrite, austenite, carbide phase, phase composition, impact strength, hardness, saturation magnetization, quenching, tempering temperature dependence / OKh18G8N2T stainless steel, OKh18G8N2 steel ABSTRACT: The effect of 0.4% Ti on the phase composition and mechanical properties OKh18G8N2T stainless steel was studied. Steel samples were quenched from 1200°C and aged to temperatures up to 900°C. Impact strength, hardness and saturation magnetition were given as functions of tempering temperature. The addition of titanium di not change these properties. In the 600-700°C range a sharp drop in impact strengt an increase in hardness and a lowering of saturation magnetization occurred. Elect		50
SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgi Shornik trudov, no. 46, 1966. Spetsial'nyye stali i splavy (Special steels and alloys), 37-40 TOPIC TAGS: stainless steel, titanium, ferrite, austenite, carbide phase, phase composition, impact strength, hardness, saturation magnetization, quenching, tempering temperature dependence / OKh18G8N2T stainless steel, OKh18G8N2 steel ABSTRACT: The effect of 0.4% Ti on the phase composition and mechanical properties OKh18G8N2T stainless steel was studied. Steel samples were quenched from 1200°C and aged to temperatures up to 900°C. Impact strength, hardness and saturation magnetition were given as functions of tempering temperature. The addition of titanium dinot change these properties. In the 600-700°C range a sharp drop in impact strengt an increase in hardness and a lowering of saturation magnetization occurred. Elect	ORG: none	
Sbornik trudov, no. 46, 1966. Spetsial'nyye stali i splavy (Special steels and alloys), 37-40 TOPIC TAGS: stainless steel, titanium, ferrite, austenite, carbide phase, phase composition, impact strength, hardness, saturation magnetization, quenching, tempering temperature dependence / OKh18G8N2T stainless steel, OKh18G8N2 steel ABSTRACT: The effect of 0.4% Ti on the phase composition and mechanical properties OKh18G8N2T stainless steel was studied. Steel samples were quenched from 1200°C and aged to temperatures up to 900°C. Impact strength, hardness and saturation magnetition were given as functions of tempering temperature. The addition of titanium dinot change these properties. In the 600-700°C range a sharp drop in impact strengt an increase in hardness and a lowering of saturation magnetization occurred. Elect	TITLE: The effect of titanium on the ph	ase composition of ferritic-austemitic stain-
position, impact strength, hardness, saturation magnetization, quenching, tempering temperature dependence / OKh18G8N2T stainless steel, OKh18G8N2 steel ABSTRACT: The effect of 0.4% Ti on the phase composition and mechanical properties OKh18G8N2T stainless steel was studied. Steel samples were quenched from 1200°C and aged to temperatures up to 900°C. Impact strength, hardness and saturation magnetition were given as functions of tempering temperature. The addition of titanium dinot change these properties. In the 600-700°C range a sharp drop in impact strengt an increase in hardness and a lowering of saturation magnetization occurred. Elect	Sbornik trudov, no. 46, 1966. Spetsial'n	sledovatel'skiy institut chernoy metallurgii. yye stali i splavy (Special steels and al-
aged to temperatures up to 900°C. Impact strength, hardness and saturation magnetition were given as functions of tempering temperature. The addition of titanium dinot change these properties. In the 600-700°C range a sharp drop in impact strengt an increase in hardness and a lowering of saturation magnetization occurred. Elect	position, impact strength, hardness, sat temperature dependence / OKh18G8N2T stai ABSTRACT: The effect of 0.4% Ti on the	uration magnetization, quenching, tempering, nless steel, OKh18G8N2 steel
lytic etching and x-ray analysis showed that TiC formed in the titanium containing	aged to temperatures up to 900°C. Impaction were given as functions of tempering the change these properties. In the 600 an increase in hardness and a lowering o	t strength, hardness and saturation magnetiza g temperature. The addition of titanium did -700°C range a sharp drop in impact strength, f saturation magnetization occurred. Electro-
Card 1/2		that TIC formed in the titanium containing

L 04187-67

ACC NR: AT6026547

2

KENNEWSKY SIE FOLDSTEIN BROWN BROWN BROWN

steel. In the steel without titanium, $Me_{23}C_6$ and σ -phase formed after prolonged tempering. The TiC, $Me_{23}C_6$ and σ -phase compositions of the two steels were compared after different heat treatments. The presence of titanium caused a sharp decrease in $Me_{23}C_6$, but increased the amount of σ -phase in some cases. Titanium tied up the carabon necessary to form $Me_{23}C_6$ and left a greater amount of chromium in solid solution, as required for σ -phase formation. Changes in the quantities of TiC and $Me_{23}C_6$ were given as functions of time. The precipitation of TiC proceeded faster than that of $Me_{23}C_6$. For OKh18G8N2 steel with titanium the rate of carbide precipitation became constant after about 10 hrs, whereas the amount of $Me_{23}C_6$ continuously increased in the steel without titanium. Orig. art. has: 2 figures, 2 tables.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 002

Card 2/2 2C

-	L 04188-67 EWT(m)/EWP(w)/T/EWP(t)/ETI LJP(c) JD ACC NR: AT6026546 SOURCE CODE: UR/2776/66/000/046/0030/0036
15th .	
	AUTHOR: Zhadan, T. A.
	AUTHOR: Zhadan, T. A. ORG: none ## ## ## ## ## ## ## ## ##
	TITLE: Industrial testing of KO-3 steel and its structural characteristics
	SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.
-	Sbornik trudov, no. 46, 1966. Spetsial'nyye stali i splavy (Special Steels and alloys),
	TOPIC TAGS: stainless steel, chromium, manganese, hot rolling, mechanical property,
	phase composition, microprobe analysis, microhardness, heat treatment, metallographic
	examination / OKh18G8N2T steel
	ABSTRACT: Industrial testing of the two-phase OKh18G8N2T steel was done at the Krasnyy
	Observable alone A enial boat of KO-3 (industrial designation) had the introving composition
	sition: 0.07% C, 18.3% Cr, 8.0% Mn, 2.5% Ni and 0.31% Ti. Strength, ductility and impact resistance were given for different initial hot rolling temperature ranges of
	Trigo 1100 1100 1170 and 1170 113000 For all temperature ranges the room temperature
	properties were the same: $\sigma_{ij} = 80 \text{ kg/mm}^2$, $\sigma_{0.2} = 38-42 \text{ kg/mm}^2$, $\sigma = 30-335 \text{ and impact}$
	resistance = 22-28 kg·m/cm ² . In high temperature tests the ductility (6) increased
	Card 1/2
3	

L 04188-67

ACC NR: AT6026546

4

steadily with temperature while $\sigma_u^{}$ decreased accordingly. The a/γ phase ratio increased as a function of temperature; in the 800 to 1300°C range the amount of a-phase increased from 45 to 85%. Wicroprobe measurements of Cr, Mn and Ni contents of the two phases showed insignificant changes as functions of α- and γ-phase contents in ferrite containing 22% Cr, 8% Mn and 1% Ni. The microhardness of ferrite and austenite also remained constant. Mechanical property changes were given as functions of tempering temperature after quenching from 1000 and 1200°C, for aging times of 1 and 100 hrs. A sharp drop in ductility occurred after tempering at 700°C for 100 hrs. The most sensitive indicators of the structural changes in the 600-700°C range were impact resistance, hardness and saturation magnetization. Accompanying the drop in ductility at 600-700°C were a sharp drop in impact resistance, increase in hardness and a lowering of saturation magnetization. A metallographic examination and x-ray analysis showed that the brittleness | Was associated with o-phase formation. The ductile state was restored by retempering above 900°C. The tendency of KO-3 steel toward cold brittleness was measured for different heat treatments. Ductility was given as a function of test temperature ranging from 200°C down to -200°C. The most ductile state was the as--quenched condition; however, samples quenched from 1000°C were more ductile than those quenched from 1200°C.) Aging cut down the ductility and raised the transition temperature--the most embrittling treatment being a quench from 1200°C and tempering at 700°C for 100 hrs. Orig. art. has: 10 figures, 1 table.

SUB CODE: 11/

SUBM DATE: none/

ORIG REF: 003

Cord 2/2 LC

ZHADAN,	V., kand.tekhn.nauk		• .
	Simplified method for the design of evaporative tech. 37 no.5:29-33 S-0 160.	condensers. Khol. (MIRA 13:10)	
	1. Odesskiy tekhnologicheskiy institut pishchevo promyshlennosti. (Condensers (Vapors and gases))	y i kholodili noy	
	(commensers (ashors arm Eagana))		

ZHADAN, V., kand.tekhn.nauk

Calculation of heat transmission through the surface of a pipe partially filled with a coolant. Mias.ind.SSSR 33 no.5:52-54 62.

(MRA 15:12)

1. Odesskiy nauchno-issledovatel'skiy institut pishchevoy i kholodil'noy promyshlennosti.

(Refrigeration and refrigerating machinery)

ZHADIN, V.I. Effect of pollution on changes in the bottom fauna of the Oca River during the last 35 years. Vop. ekol. 5:61-62 '62. (MIRA 16:6)

1. Zoologicheskiy institut AN SSSR, Leningrad.
(Oka River—Freshwater fauna)
(Oka River—Water—Pollution)

ZHADIN, V.I.

Porecasting and reality; realization of the forecasts of the hydrobiological conditions in Kuybyshev Reservoir. Zool. zhur. 42 no.51641-651 163. (MIRA 1617)

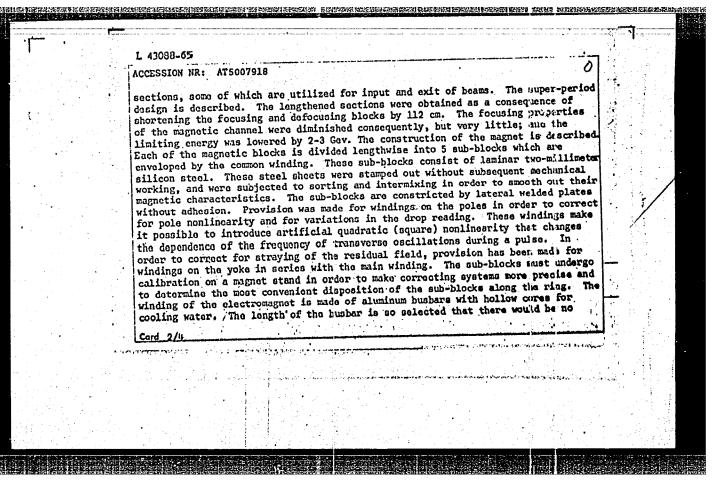
1. Zoological Institute, Academy of Sciences of the U.S.S.R., Leningrad. (Kuybyshev Repervoir—Hydrobiology)

ZHADAN,	V.M., starshiy nauchnyy sotrudnik		
	Study of heat exchange in a mine working behind a focus o on an aerothermodynamic model. Trudy Sem.po gor.teplotek no.4:39-41 '62. (M		
	1. TSentral'naya nauchno-issledovatel'skaya laboratoriya gornospasatel'nomu delu. (Mine fires) (HeatTransmission)	po	

ZHADAN, V.S., kand. tekhn. nauk; KLYCHNIKOVA, L.V., inzh.; BORTSOVA, L.A., inzh.

Development of the parameters of industrial air conditioning. Khol. tekh. 1 tekh. no.1:111-115 '65. (MIRA 18:7)

	L 4308B-65 EVT(m)/ EPA(w)-2/EVA(m)-2 Pab-10/Pt-7 IJP(c) JT/GS ACCESSION NR: AT5007918 8/0000/64/000/000/0197/0201	
	AUTHOR: Vladimirskiy, V. V.; Gol'din, L. L.; Konhkarov, D. G.; Tarasov, Ye. K.; Byakovlev, B. H.; Gustov, G. K.; Komar, Ye. G.; Kulikov, V. V.; Halyshev, I. F.; Honoszon, N. A.; Popkovich, A. V.; Stolov, A. H.; Strel'tsov, N. S.; Titev. V. A.; Vodop'yanov, F. A.; Kuz'min, A. A.; Kuz'min, V. F.; Hints, A. L.; Rubchinskiy, S. H.; Uvarov, V. A.; Zhadanov, V. H.; Filarotov, S. G.; Shiryayev, F. Z.	
	TITLE: 60-70 Gev Proton Synchrotron SOURCE: International Conference on High Energy Accelerators. Dubna, 1933. Trudy. Moscow, Atomizdat, 1964, 197-201	
	TOPIC TAGS: high energy accelerator, synchrotron	
	ABSTRACT: A 60-70 Gev proton synchrotron with strong focusing is being constructed not far from Serpukhov, as has been reported earlier (e.g. "Research Institute for Electro-Physical Equipment, Leningrad," in Proceedings of the International Conference on High Energy Accelerators and Instrumentation (CERN, 1959), p. 373). The present report describes parameter changes and improvements in precision structural characteristics of the accelerator, and the present state of construction in midelear characteristics of the magnet are presented in a table. A small change in the original plans permitted an increase in the length of a part of the free Cord. 1/4	
-		



	L 43088-65 ACCESSION NR: AT5007918	
	ACCESSION RRI ALSOVIALE	
	welded joints inside the coils. The winding consists of 4 sections, two of which are disposed on the upper pole and two on the lower. The most important characterare disposed on the upper pole and two on the lower, are described in a table. Also	
	istics of the electromagnet and power supply signal (obtained by 53 paired	
	resonators with ferrite rings, which opening timnel and the general	
	and give accelerating potential of some and described. The building	
	for the injector and portions of the transfer and me ready for installation of	
	equipment. This room, in the form of a single that the inner and outer sides. A	
•	supports, permits one to work on beams brought into the fine and an apports, permits one to work on beams brought into the first supports. Provisions 90-meter arch covers this room, whose overall length is 150 meters. Provisions	
	90-meter arch covers this room, whose overall length is a such west part of the ring. have been made for a second experimental room at the southwest part of the ring. Orig. has 4 figures, 2 tables.	
	A transfer of the contract to	
	ASSOCIATION: Institute teoreticneskoy i eksperimental Physics, GKAE SSSR). (2) Nauchno- (Institute of Theoretical and Experimental Physics, GKAE SSSR). V Yefremova	
	(Institute of Theoretical and Experimental rhysical study ineni D. V. Yefremova issledovatel'skiy institut elektrofizicheskoy apparatury imeni D. V. Yefremova GKAE SSSR (Scientific Research Institute of Electrophysical Apparatus, GKAE SSSR).	
	Card_3/4_	

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001964520009-5

3 1	L 43088-65 ACCESSION NR; AT5007918	2
	(3) Radiotekhnicheskiy institute AN SS Sciences SSSR). (4) Gosudarstvennyy p Institute, GKAE SSSR).	SR (Radio Engineering Institute, Academy of roycktnyy institut GKAE 888R (State Flanning
	SUBMITTED: 26Hay64	ENCL: 00 SUB ODE: EE, NY
	NO REF SOVI 002	OTHER: 001
	Card 4/4	
	A Company of the Comp	The second second of the second secon

ZHADAN, V. T. - "Investigation of the deformation of metals in flange gauges".

Moscow, 1955. Min Higher Education USSR. Moscow Order of Labor Red Banner Inst of Steel imeni I. V. Stalin (Dissertation for the Degree of Candidate of Technical Sciences).

SO: Knizhnaya Letopis' No. 46, 12 November 1955. Koscow

CIA-RDP86-00513R001964520009-5 "APPROVED FOR RELEASE: 09/19/2001

ZHADAN, V.T.

137-58-4-7068

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 110 (USSR)

Polukhin, P. I., Zhadan, V. T. AUTHORS:

An Investigation of the Deformation of Metal in Flanging Passes (Issledovaniye deformatsii metalla vo flantsevykh kalibrakh) TITLE:

Sb. Mosk. in-t stali, 1957, Vol 36, pp 196-227 PERIODICAL:

An investigation of the filling of slitting grooved rolls in the rolling of flanged shapes in accordance with changes in the angle ABSTRACT: of the slitting collar, the degree of reduction, the spread (5), and the condition of the surface of the pass, has been made. The effect of these factors on the power consumption and the pressure' of the metal on the rolls is clarified. The investigation was conducted in the rolling (R) of a beam 100 mm high on a 360 mm mill in four slitting passes, in which the collar angles (CA) were 80, 70, 60 and 45°. R came to 43-59 percent reduction depending on the height of the initial billet. The effect of S was investigated in specimens of various initial width. The pressure of the metal on the rolls was measured by hydraulic capsules with carbon elements. The area of the horizontal projection of the contact surface was determined by graphic and analytic methods. The temperature

Card 1/2

137-58-4-7068

An Investigation of the Deformation of Metal in Flanging Passes

at the start of R was 1200°C. It follows from the results obtained that CA is increased from 45 to 70°, the height of the open and closed flanges (F) diminishes. As CA increases, reduction in cross section with height undergoes a smaller increase than does the mean reduction factor. In R without S, as CA rises from 45 to 70°, there is an increasing asymmetry of deformation, which is a consequence of the more intensive reduction in the height of the closed F. When R is accompanied by S, this relationship is less significant. As relative reduction on the collar increases from 43 to 59 percent, the height of open and closed F increases, and the zone of enforced S of the midsection of the cross section of the strip also increases, resulting in an increase in lateral pressure and friction. In R in the absence of S conditions are more favorable for open F and less favorable for closed F. Variation in S changes the force requirement, and this makes for different degrees of filling of the open and closed F. As S increases, the asymmetry of deformation of the metal diminishes. As CA increases, unit pressure diminishes, but to an insignificant degree, while unit power consumption increases considerably. When reduction on the collar is increased to 43-56 percent, unit pressure increases by 8-10.5 kg/mm², and unit power consumption from 0.7 to 1.8 kwh/t. An increase in S results in a

Card 2/2

Yu.F.

1. Rolling mills 2. Metals--Deformation--Test methods --Test results 3. Metals--Deformation

ZHADAN, V.T.

137-1958-3-5030

Translations from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 82 (USSR)

AUTHORS:

Polukhin, P. I., Zhadan, V. T.

TITLE:

An Investigation of the Cross-sectional Distribution of the Deformation of Metal in a Strip Rolled in a Sectional Caliber

(Issledovaniye raspredeleniya deformatsii metalla po secheniyu

polosy, prokatamey v razreznom kalibre)

PERIODICAL: Sb. Mosk. in-t stali, 1957, Vol 36, pp 228-245

ABSTRACT:

Investigations were carried out in order to establish how the cross-sectional distribution of the deformation (D) in a metal strip rolled in a sectional caliber is affected by the crest (C) angle and by the extent of the reduction and expansion (E), as well as to determine the consumption of energy and establish the pressures exerted by the metal against the rolls. The distribution of D was determined from changes in the thread pitch of screws which were screwed into the metal. The value of the crest angle varied between 80° and 45°. Rolling operations were performed on a 360 rolling mill, at a temperature of 1200°. Templets cut from the rolled strips were ground, polished and etched in a solution of HNO₃. The data obtained describe the depthwise

Card 1/2

137-1958-3-5030

An Investigation of the Cross-sectional Distribution of the Deformation (cont.)

distribution of D in regions of low and of high degree of reduction. Regions adjacent to the crest experience the greatest D. The minimum D is observed approximately at the midpoint of the height of the neck. Maximal transverse D is observed in regions adjacent to the C, while minimum D is found in the central portion of the neck. Measurements of the transverse D serve to determine the boundaries of regions of constrained E and constrained constriction, as well as the D pattern and the pattern of the internal stress conditions; the same measurements also make it possible to trace the flow of metal in the calibers. The central region of the templet constitutes an area of constrained E, whereas constrained constriction in the transverse and vertical directions is observed on the edges. From the data of the transverse, longitudinal, and vertical distribution of D it may be deduced that the D of metal, forced through a sectional caliber, is symmetrical with respect to the vertical axis and unsymmetrical with respect

Card 2/2

Yu. F.

ZHADAN, V.T.

137-58-4-6993

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 98 (USSR)

Polukhin, P. I., Zhadan, V. T. AUTHORS:

TITLE:

An Investigation of Forward Slip and Speed Factors in Rollforming in a Sectional Pass (Issledovaniye operezheniya i skorostnykh usloviy prokatki v razreznom kalibre)

PERIODICAL: Sb. Mosk. in-t stali, 1957, Vol 36, pp 246-258

Experiments in rolling samples of 95.5x75 mm cross section ABSTRACT: of Nr 20 grade steel at <1230° in a slit pass (P) on a 360 mm mill are presented. To determine the speed of the rolls (R), the readings of the track pick-up, a toothed disk fastened to the R wabbler, which closed and opened an electric circuit with the aid of brushes, were recorded on photographic film. A 50-cycle AC current sine wave was used as a time marker. The speed of the strip at the outlet was determined with the aid of a carriage moving along guide racks. Along a portion of its track, 100 mm in length, the carriage closed the circuit of an outside power source, and this identified its speed of motion within a given contact time. Templets were cut from the rolled samples, and by superimposing these on the drawing of the P the length of the line of contact of

Card 1/2

An Investigation of Forward Slip (cont.)

137-58-4-6993

the R was found segment by segment, and the working diameters of the R at the point of start and finish of each segment were determined. The number of revolutions of the R and the working diameters were employed to find the peripheral velocity at these points and the forward slip relative to the true speed of the strip. These data were employed to plot a chart of forward slip, the area of which, after division by the length of the line of contact, yielded the mean forward slip in the P. This latter was considerably less than the forward slip along the neck. The mean velocity of the R in the P was determined by the average working diameter by plotting a diagram in which the length of the line of contact was laid off along the axis of the abscissae and the working diameters at the points indicated along the axis of the ordinates. The same parameter was determined graphically by plotting a similar diagram in which speeds were laid off along the axis of the ordinates. The results of the calculations by the two different methods were in good agreement. The speed of the strip determined experimentally differed by 1.5-3 percent from the calculated speed, and this is testimony to the applicability of this method of determining the speed 1. Rolling mills--Operation

2. Rolling mills--Rolls--Speed factors Card 2/2

STREET,

ZHADAN, V.T.

AUTHOR:

Bakhtinov, B.P. and Zhadan, V.T., Candidates of Technical Sciences 133-58-3-17/29

TITLE:

Review of P.I. Polukhin's book: Prokatka i kalibrovka dvutavrovykh balok (I-Beam Rolling and Grove Design)

PERIODICAL:

Stal', 1958, Nr 3, pp 242 - 243 (USSR)

ABSTRACT:

Review of subject book which was published by Metallurgizdat in 1956.

AVAILABLE:

Library of Congress

Card 1/1

POLUKHIN, P.I., prof., doktor tekhn.nauk, red.; GRINBERG, B.G., dotsent, kend.tekhn.nauk; KAMTENIK, S.K., dotsent, kend.tekhn.nauk; ZHADAN, V.T., dotsent, kend.tekhn.nauk; VASIL'YEV, D.I., dotsent, kend.tekhn.nauk; LEREMEV, B.G., dotsent, kand.tekhn.nauk, nauchnyy red.; LAKHTIN, Yu.M., prof., doktor tekhn.nauk, retsenzent; KITAYTSEV, V.A., dotsent, kand.tekhn.nauk, retsenzent; RANYGRAYEV, A.M., inzh., retsenzent; YUDINA, L.A., red.izd-va; RYAZANOV, P.Ye., tekhn.red.

[Technology of metals] Tekhnologiia metallov. Pod obshchei red. P.I.Polukhina. Moskva, Gos.isd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 460 p.

l. Kafedra metallovedeniya Moskovskogo avtomobil'no-dorozhnogo instituta (for Lakhtin, Kitaytsev, Razygrayev).

(Metals) (Metalwork)

LITOVCHENKO, N.V.; DIOMIDOV, B.B.; ZHADAN, V.T.

Expansion in H- and channel-beam grooves. Izv. vys. usheb.
 zav.; chern. met. 7 no.9:113-117 '64. (MIRA 17:6)

1. Magnitogorskiy gorno-metallurgicheskiy institut i Moskovskiy vecherniy metallurgicheskiy institut.

CRINBERG, Boris Grigor'yevich; ZHADAN, Vasiliy Timofeyevich; MIKHALEVSKAYA, V.I., red.

[Technology of metals and welding; program, methodological guide and control assignments for students of structural engineering in correspondence schools of higher education] Tekhnologiia metallov i svarka; programma, metodicheskie ukazaniia i kontrol'nye zadaniia dlia studentov inzhenernostroitel'nykh spetsial'nostei zaochnykh vysshikh uchelnykh zavedenii, fakul'tetov, otdelenii. Moskva, Vysshaia shkola, 1964. 81 p. (MIRA 17:9)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego i srednego spetsial nogo obrazovaniya. Uchebno-metodicheskoye upravleniye po vuzam.

ACC NR: AP6036403

SOURCE CODE: UR/0148/66/000/011/0093/0096

AUTHOR: Zhadan, V. T.

ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut stall i splavov)

TITLE: Effect of ultrasound in cold upsetting of hard-to-deform steels

SOURCE: IVUZ. Chernaya metallurgiya, no. 11, 1966, 93-96

TOPIC TAGS: ultrasonic vibration, ultrasonic metal deformation, working/Kh23N28M3D3T steel, EI943 STEEL

COLD

ABSTRACT: Specimens of Kh23N28M3D3T-E1943 steel (0.06% C, 0.8% Si, 0.8% Mn, 22 to 25% Cr, 26—29% Ni, 2.5—3% Mo, 2.5—3.5% Cu, 0.5—0.9% Ti) 6.2 mm in diameter and 7.67 mm high annealed at 1150C and water quenched were upset at room temperature with simultaneous application of ultrasound at a frequency of 21 kc and an amplitude of 0.012 mm. The experiments showed that ultrasound reduced the average pressure required for upsetting with 25, 40 and 50% reduction from 3200, 4800 and 6750 kg without ultrasound to 3000, 4300 and 6000 kg with ultrasound. Orig: art. has: 2 figures and 1 table.

SUB CODE: 13/ SUBM DATE: 16Jul66/ ORIG REF: 003/

Card 1/1

UDC: 669.018.25-13:621.034

SUKHAREVSKIY, V.M.; KHOROL SKIY, V.T.; ZHADAN, V.M.; NIKOLAYEV, V.F., otv.red.; VINOGRADOVA, G.V., red.1zd-va; SHKLYAR, S.Yn., tekhn.

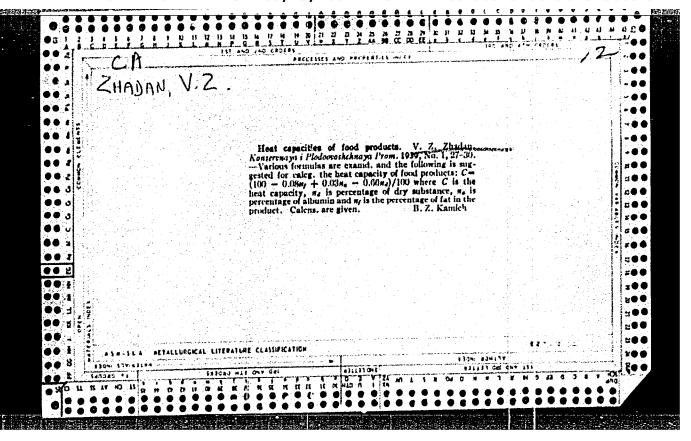
[Fire prevention in mines] Protivoposharnaia zashchita shakht.

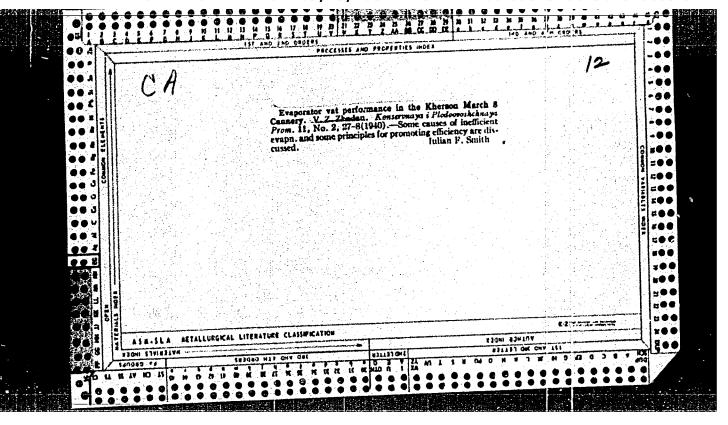
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. 1959.

95 p. (MINA 13:3)

1. TSentral'naya nauchno-issledovatel'skaya laboratoriya po gorno-spasatel'nomu delu.

(Coal mines and mining--Fires and fire prevention)





ZHADAN, U.Z.

USSR/Processes and Equipment for Chemical Industries - Control and Measuring Devices.

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 64002

Author: Zhadan, V. Z.

Institution: None.

Title: Thermohygrometric Method of Determining the Humidity of the Air

Periodical: Tr. Odessk. tekhnol. in-ta pishch. i kholodil'n. prom-sti, 1955, 6,

167-173

The method consists in measuring the rate of heating or cooling within the air (A) under study of a reservoir with humidified walls; intensity Abstract:

of heat-exchange between the damp wall and the A depends on the humidity of the A. The instrument is so designed that the reservoir (R) containing the liquid utilized (diameter 25 mm, height 75 mm) constitutes at the same time the bulb of a special thermometer (with capil-

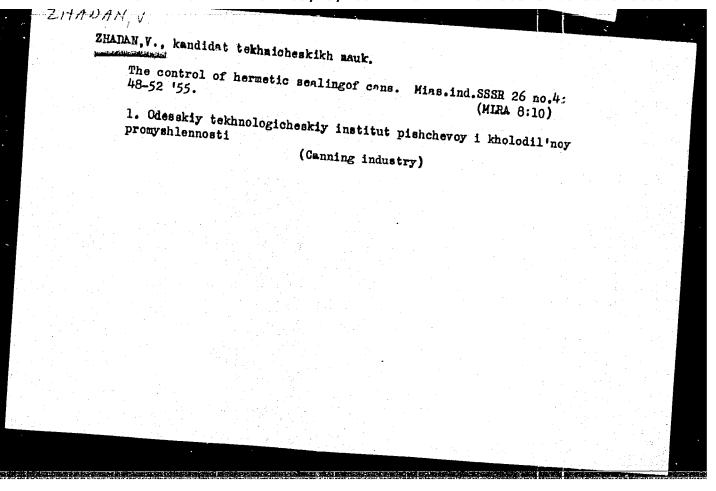
lary 1.9 mm in diameter, 520 mm long). Three modifications of the

method are being differentiated: (1) in a condensation

Card 1/2

Card 2

CIA-RDP86-00513R001964520 ELEASE: 09/19/2001



AUTHOR: Zhadan, V.Z.

66-2-14/22

TITLE: On calculating the condensation temperature during recooling of water. (O raschete temperatury kondensatsii pri obratnom okhlazhdenii vody).

PERIODICAL: "Kholodil' naya Tekhnika" (Refrigeration Engineering) 1957, No.2, pp. 65 - 66 (USSR).

ABSTRACT: In absence of natural water reservoirs the cooling water is usually recirculated and cooled in water coolers mainly as a result of evaporation of a part of the water. In the cooling of the water the condensation temperature depends on a mimber of factors of which the air temperature, (measured with a wet thermometer), the air speed, the ratio of the water to air flow rates, are important factors. First, the author evaluates the effectiveness of the water cooling in spray type open water coolers, applying for this purpose the "cooling coefficient". Then, the "effectiveness coefficient" that the coloniated ient" is calculated and it is stated that the calculated values are in most cases in good agreement with experimentally determined values. Furthermore, the condensation tem-Card 1/2 perature is calculated and it is shown that addition of up to 10% of fresh water has practically no influence on the condensation temperature if the temperature of the added

On calculating the condensation temperature during recooling of water. (Cont.)

water is 2 to 4% higher than the temperature of a thermometer in the wet state. The derived formulae are applicable cooling water.

There is one table, and two Slavic references.

AVAILABLE:

Card 2/2

ZHADAH, V.Z., kand.tekhn.nauk, dotsent

Evaluating the effectiveness of atmospheric cooling towers.
Trudy OTP i KP 8 no.1:43-50 '57. (MIRA 12:8)

1. Kafedra kholodil'nykh mashin Odesskogo tekhnologicheskogo instituta pishchevoy i kholodil'noy promyshlennosti.

(Cooling towers)

Optimum conditions for the operation of condensers of refrigeration plants [with summary in English]. Thol.tekh. 35 no.6:12-14 N-D '58. (MIRA 12:1)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodili'noy promyshlennosti. (Refrigeration and refrigerating machinery)

2 in 1944 de 1948 de 19

14(1)

SCV/66-59-3-10/31

AUTHOR:

Zhadan, V., Candidate of Technical Sciences

TITLE:

Optimum Working Conditions of Refrigerating Plants With Return Cooling

of Condenser Water

PERIODICAL:

Kholodil'naya tekhnika, 1959, Nr 3, pp 41 - 44 (USSR)

ABSTRACT:

For the more efficient operation of refrigerating plants with return cooling of condenser water greater attention should be paid to the calculation of the rates at which water cools in the cooling tower; to the drop of temperature in the condenser; and to the consumption of circulation water. The article gives several formulae and equations calculated by the author, with the aid of which it is possible to determine the following values: the optimum temperature of condensation; the temperature of water leaving the condenser; the temperature of water entering the condenser; the extent to which water is heated in the condenser; the consumption of circulating water; the average logarithmic drop of temperature in the condenser; and the required surface of heat exchange in the condenser. The above-mentioned values will be optimal provided the temperature of condensation $(t_{\mathcal{U}})$ and the temperature of the water leaving the condenser $(t_{i,2})$ are based on the equations 7 and

Card 1/2

SOV/66-59-3-10/31

Optimum Working Conditions of Refrigerating Plants With Return Cooling of Condenser Water

8. The method of working out the optimum coordinated working conditions for the water cooler and condenser of a refrigeration installation guarantees the lowest possible operational costs. In connection with the development of certain formulae the article mentions the names of L D. Berman and A.A. Gogolin, in reference to the efficiency coefficient of a water cooler. Approximate calculations show for example that the temperature difference between ammonia and water in condensers should not be 50, as is usually accepted, but 2.3 to 2.4°C. This can be seen from the table. There are: 2 tables and 5 Soviet references.

ASSOCIATION:

Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti (Odessa Technological Institute of the Food and Refrigeration Industries)

Card 2/2

ZHADAN, V.Z.; KHELEMSKIY, M.Z.

Experimental investigation of the speed of sugar beet freezing. Sakh.prom. 38 no.2:20-25 F 64. (MIRA 17:3)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti (for Zhadan). 2. Vsesoyuznyy nauchno-issledovatel'-skiy institut sveklovichnogo polevodstva (for Khelemskiy).

Heat capacity of fruit and vegetables. Izv.vys.ucheb.zav.; pishch.tekh.no. 2:121 '64. (MIRA 17:5)					
	1. Odesskiy tekhnologicheskiy insti promyshlennosti.	itut pisachevoy i kholodil'noy			

ZHADAN, V.Z.; KHELEMSKIY, M.Z.

Heat content of sugar beets and the amount of cold needed for their freezing. Sakh.prom. 38 no.1:20-21 Ja '64. (MIRA 17:2)

1. Odesskiy institut pishchevoy i kholodil'noy promyshlennosti (for Zhadan). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti (for Khelemskiy).

ZHADAN, V.Z.; KHELEMSKIY, M.Z.

Experimental determining of the quantity of the water freezing out from sugar beets and sugar beet juices. Sakh.prom. 37 ro.9:26-30 S 163. (MIRA 16:9)

1. Odesskiy tekhnologicheskiy institut pishchevoy i khclodil'noy promyshlennosti (for Zhadan). 2 TSentral'nyy nauchno-iseledovatel skiy institut sakharnoy promyshlennosti (for Khelemskiy).

(Sugar beets—Storage)

(Refrigeration and refrigerating machinery)

KHELEMSKIY, M.Z., prof.; ZHADAN, V.Z., kand. tekhn. nauk

Use of artificial air cooling in sugar best storage. Khol.
tekh. 39 no.5:19-21 S-0 '62. (MIRA 16:7)

1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy
promyshlennosti (for Khelemskiy). 2. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti
(for Zhadan).
(Sugar bests—Storage) (Air conditioning)

ZHADAN		
	Heat withdrawal along the shaft from thrust b stroenie 28 no.1:35 Ja '62.	earings. Sudo- (MIRA 16:7)
	(Marine engineering)	

KHELEMSKIY, M.Z.; ZHADAN, V.Z.

Effect of the concentration of dry substances in the beet juice on its thermophysical characteristics. Sakh.prom. 37 no.6:23-27 Je '63. (MIRA 16:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti (for Khelemskiy). 2. Odesskiy gosudarstvennyy universitet im. Mechnikova (for Zhadan).

(Sugar manufacture)

ZHADAN, V.Z.; KHELEMSKIY, M.Z.

Thermophysical indices of sugar beets. Sakh. prom. 37 no.3:
54-56 Mr '63.

1. Odesskiy bekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti (for Zhadan). 2. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti (for Khelemskiy).

(Sugar beets—Thermal properties)

ZHADAN, V. Z.; KHELEMSKIY, M. Z.

Effect of the temperature of sugar beet storage on sugar lesses due to respiration. Sakh. prom. 36 no.10:55-58 0 62.

(MIRA 15:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti.

(Sugar beets-Storage)

ZAYTSEV, Vikentiy Petrovich, kand. tekhn. nauk; ZHADAN, V.Z., kand. tekhn. nauk, retsenzent; KAN. A.V., inzh., retsenzent; MASLOVA, Ye.F., red.; EL'KINA, E.M., tekhn. red.

[Refrigeration engineering]Kholodil'naia tekhnika. Leningrad, Gos.izd-vo torg. lit-ry, 1962. 343 p. (MIRA 15:10) (Refrigeration and refrigerating machinery)

ZHADAN	I, V.Z.; ORLOVSKIY, M.A.		
	Methods of laboratory inspection of the airtightness food-filled cans. Kons.i ov.prom. 17 no.2:22-24 F	'62. (MIRA 15:5)	
	1. Odesskiy tekhnologicheskiy institut pishchevoy kholodil'noy promyshlennosti.	i	
	(Food, CannedContainers) (Laboratory testing)		
	다는 생생들이 한다고 하고 않는데 하다. 지나는 하고 있었다. 하이라는 글 하는 것이 보다는 것을 보고 하다.		