

Thermodynamic Properties of Nitrogen at Low
Temperatures and Pressures up to 200 Atmospheres,
by S. Ya. Gersh.

RUSSIAN, par, Kislorod, No 5, 1947, pp 21-25.

Dept of Interior
TNY EST No 555

218,904

Jci - Min/Mat

Oct 62

A Method of Preventing Explosions in Air-Separation
Installations, by I. P. Ishkin, P. Z. Burbo,
12 pp.

RUSSIAN, per, Kislovod, May 1947, pp 26-34.

Sci Mus Lib Tr 57/1039

Sci - Physics
Aug 57

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LEVI, L.I.

KISLODOD, vol 4, No 3, 1947

Cupolas operated with oxygen-enriched blast

Bratcher Trans 2066, \$8.55

Clinker

Burning of Portland Cement ~~CHOCINEX~~ With Oxygen-
Enriched Air, by Yu. S. Lar'e, G. S. Val'berg,
29 pp.

RUSSIAN, per, Kislacod, Vol IV, No 4, 1947, pp 14-
26.

Sci Trans Center
RT-1579

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Scientific - Engineering

Dec 54 CTS/DEX

Ishkin, I. P. and Burbo, P. Z.
MEANS OF PREVENTING EXPLOSIONS IN AIR
SEPARATING EQUIPMENT. [1962] [16]p. 7 refs.
Order from OTS or SLA \$1.60 62-20158

Trans. of Kislorod (USSR) 1947, v. 4, no. 5, p. 26-34.

DESCRIPTORS: *Explosions, Air, *Acetylenes,
*Liquid oxygen, Separation, Industrial equipment.

A new method of removing acetylene from air, which provides explosion proof operation of air separation equipment, was developed. The method is based on the results of investigation of the properties of the acetylene-liquid oxygen system, the dynamic adsorption by silica gel of acetylene from oxygen-nitrogen solutions, and the explosibility of the adsorbents. The method is finding increasing industrial application in large tonnage oxygen plants and also in plants producing technical nitrogen. (Author)
(Engineering--Chemical, TT, v. 9, no. 11)

62-20158

I. Ishkin, I. P.
II. Burbo, P. Z.

Office of Technical Services

(FDD 18114)

Concerning a Rational Scheme of Working up Air for
Obtaining Krypton, by G. V. Pastovskiy, Yu. V. Petrovskiy,
M. B. Stolper, 27 pp

RUSSIAN, bimo per, Kislorod, No 6, Moscow, Nov/Dec 1947.
pp 22, 23.

CIA/FDD/U-5259

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Sci - Physics

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Gittsevich, G. A.
CAUSES OF EXPLOSIONS IN AIR SEPARATION
PLANTS. [1961] [10]. [DSIR LLJ] M. 2824.
Order from OTS or SLA \$1.10

61-23245

I. Gittsevich, G. A.
II. DSIR LLJ M. 2824

Trans. of Khimiya (USSR) 1957 [v. 10] no. 2, p. 27-33.

DESCRIPTORS: *Explosions, *Gases, Oils, Lubrica-
tion, Separation, *Hydrocarbons, Compressed air.

Explosions in plants producing gaseous oxygen can be
accounted for by the accumulation in the condenser of
the separating plant of volatile hydrocarbons formed as
a result of cracking of cylinder oils during compression
of the air in the final stages of the high-pressure air
compressors. (Author)

175361

Office of Technical Services

(Chemistry-Physical, TT, v. 6, no. 3)

The Efficiency of Electric Steel Production by
the Duplex Method of Oxygen Converter and
Electric Furnace, by S. D. Gagin. UNCL

RUSSIAN, per. Kislorod, No 6, Moscow, 1957,
pp 1-11.

ULL M, 4577
British Iron and
Steel Ind 1282
(14)

Sci - Min/Inst
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Carbon Elimination and Mixing in Steel Baths Treated
With Oxygen, by E. V. Chelishchev.

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pp 11-18.

HB 4459

Sci - Min/Met

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Heat Transfer During the Evaporation of Oxygen
and Nitrogen, by M. Ye. Ivanov, N. K. Yelukhin,
16 pp. ID 21345-92 u

EN RUSSIAN, per, Kislород, No 3, 1958, pp 19-
28.

ACSI H-2477

Sci - Chem

Mar 60

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Oxygen in Blast Furnace Smelting, by M. A. Shapovalov. UNCL

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BIBI 1424

~~(16-58-007)~~

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Sci - Chem

Oct 59

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S-5166

(DC-2771).

Horizontal Centrifugal Rectifier, by S. Ya, Gerah,
A. M. Arkharov, 22 pp.

RUSSIAN, per. Kislorod, No 5, Moscow, 1958,
pp 1-10.

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JPRS-L-1757-D

Sci - Engr
Jul 59

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The USSR Information Dissemination Blank, by A. B. ...
pp.

RUSSIAN, per, KizlorodUSSR, Vol XI, No 5, 1958,
pp 21-28.

ATS-25L29R

410-13-1417

Del - CHEMISTRY
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OTS V. I, No 9

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Test Operation of Air Separation Apparatus With Acetylene
Adsorbents, by L. S. Durniyev, 3 pp.

RUSSIAN, per, Kislorod USSR, Vol XI, No 5, 1958,
pp 36-38.

AFS-16L29R
ATS-87-1702

Sci - Engineering, Chemistry
May 59
OTS V. I, No 9

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61-13069

Stolyarov, A. I.
EXPERIENCE OF OPERATION OF THE OXYGEN
PLANT AT THE "AZOVSTAL" WORKS. [1961]
[13]p. [DSIR LLU] M 1734.
Order from OTS or SLA \$1.60 61-13069

I. Stolyarov, A. I.
II. DSIR LLU M.1734

Trans. of Kislород (USSR) 1958 [v. 11] no. 5,
p. 39-47.

DESCRIPTORS: *Oxygen equipment, *Soaps, *Oxygen,
Air Separation, *Lubricants, *Open hearth furnaces.

An account is given of a pumpless soap emulsion lubri-
cation system for piston oxygen compressors using
the oxygen pressure itself to feed the emulsion. Con-
sideration is given to prevention of sediment forma-
tion in the emulsion, and to valve overhaul and other
maintenance measures. The oxygen plant is used in
production of oxygen for open hearth furnaces, for
welding, and for the cutting of metals.

(Metallurgy, TT, v. 6, no. 1)

161655

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The Use of ^{of} Polystyrene at Low Temperatures, by A. A. Trokhin,

RUSSIAN, per, Kislorod, Vol XI, No 5, 1958, pp 62-64.

ATS RJ-1718

11-11-58

Sci - *chem*
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The Cause of Explosions in the Lower Columns of
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SIA 59-22612

DSIK LLU III-658 (LOHII)

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Nov 60

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(NY-2900/2).

~~Small and Medium Capacity~~ ^{Nitrogen} Installations for the
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K. N. Ivanov, L. R. Margolin, V. D. Zubchik, 8 pp.

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JPRS-1798-N

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Photometric Method for Determining Organic
Impurities in Liquid Oxygen and Its Evaporated
Liquid, by G. V. Ivanovs,

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DSIR LLU 771-784 (LOAN)

Sci - Chem

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Liquefied Gases.

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Jan 60

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(NY-2900/5).

Liquid Nitrogen Installation, by V. D. Zubchik,
A. D. Kochergin, 4 pp.

RUSSIAE, par, Kislород, No 2, 1959, pp 9-14.

JPRS-1982-H

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Econ - Technological - Chemical Machinery

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The Adsorptive Separation of Acetylene and Carbon
Dioxide From Air in Industrial Gaseous and Liquid
Oxygen Plants, by I. P. Ishkin, N. F. Katina.

RUSSIAN, per, Kislorod, Vol XII, No 2, 1959,
pp 37, 38.

ATS RJ-1981

Sci - Chem

Jan 60

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Pilippova, G. P. and Izhkin, I. P.
THE VISCOSITY OF AIR AND ARGON AT TEM-
PERATURES OF FROM 0° TO -183°C AND PRES-
SURES OF FROM 1 TO 150 ATM (Vyazkovost
Vozdukha i Argona pri Temperaturakh ot 0 do -183°C i
Davleniyakh ot 1 do 150 ATA). Dec 60 [3]p. 6 refs.
RTS 1696.
Order from LC or SLA ml\$1.80, ph\$1.80 61-15235

- 1. Air--Viscosity
- 2. Argon--Viscosity
- I. Pilippova, G. P.
- II. Izhkin, I. P.
- III. RTS-1696
- IV. Department of Scientific
and Industrial Research
(Or. Brit.)

Trans. of Kizlorod (USSR) 1959, v. 12, no. 2, p. 38.

148,732

A method of determining the viscosity of compressed
gases at low temperatures is described. The gas
flows through two capillaries. One of the capillaries
is the working one and the gas flows through it at the
given pressure and temperature. The other is the
comparative capillary, the gas flowing through it at a
pressure close to atmospheric pressure and at room
temperature. The desired viscosity is proportional to
the ratio of the pressure drops in the capillaries. The
results of measurements of the viscosity of air and
argon are tabulated.

Office of Technical Services
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TT, v. 5, no. 7)

(NY-2900/5).

The Adsorption Method of Drying Oxygen Under Industrial
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Air-Separation Units, by K. N. Ivanov, L. R.
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Platalova, L. A.
ON GRAPHITE MATERIALS FOR SLEEVES OF
LIQUID OXYGEN PUMPS. [1961] 2p. [DSIR LUU]
M 2275.

Order from OTS or SLA \$1.10

61-13757

Trans. of Kislod (USSR) 1959 [v. 12] no. 2, p. 54.

DESCRIPTORS: *Liquid oxygen, *Graphite compounds,
Friction, *Pumps

Recommendations are made concerning the most effective anti-friction graphite materials for the sleeves of liquid oxygen pumps and sources where they can be purchased.

(Materials--Lubricants, TT, v. 6, no. 1)

- I. Sleeves
- I. Platalova, L. A.
- II. DSIR LUU M. 2275

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Office of Technical Services

(NY-2900/5).

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Selected Translations on Soviet Machine Building --
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Pumps for Liquefied Gases, by Yu. A. Miroslavskaya,
4 pp.

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NEW DATA FOR THE EXPLOSIBILITY OF MIX-
TURES OF HYDROCARBONS IN LIQUID OXYGEN.
[1960] [7]p. 6 refs. M1318.

Order from LC or SLA m/\$1.80, ph/\$1.80 60-23040

Trans. of Kislorod (USSR) 1959 [v. 12] no. 3, p. 12-16.

Various hydrocarbon fractions were collected by deep freezing and subjected to explosibility tests in admixture with liquid oxygen. Results indicate that solidified hydrocarbons other than acetylene may also be involved in plant explosions. (Author)

(Chemistry--Physical, TT, v. 5, no. 3)

1. Hydrocarbons--Combustion
 2. Oxygen (Liquid)--Physical effects
- I. Gittsevich, G. A.
 - II. DSIR LLU M.1318

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(NY-2900/5).

KTK-7 Oxygen Turbocompressor, 6 pp.

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Detonating Ability of Mixtures of Acetylene and
Oils With Liquid Oxygen, by Z. B. Baryatov,
V. G. Ilkhelev,

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Sci - Chem

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(DC-5068)

Economics of Supplying Consumers With Industrial
Japan, by B. E. Volkov, 6 pp.

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Refrigeration Engineering, by V. I. Yepifanova,
V. V. Kochergin, 4 pp.

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pp 58, 59.

JPRS 3261.

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Separation of Deuterium From Hydrogen by Means
of the Low-Temperature Distillation Method, by
M.P. Malkov, A.G. Zel'dovich. 27 pp.
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Improvement of Safety Valve, by L. H. Solyankin.

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T. B. Baldmanova, 161 pp.

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278-279, 281-284, 286-295, 296, 298, 299, 303-350

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Investigation of the Wake Behind a Body Flying
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O. I. Shvets'. 15 pp.
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Rivets, by V. P. Grigor'yev, 7 pp. UNCLASSIFIED

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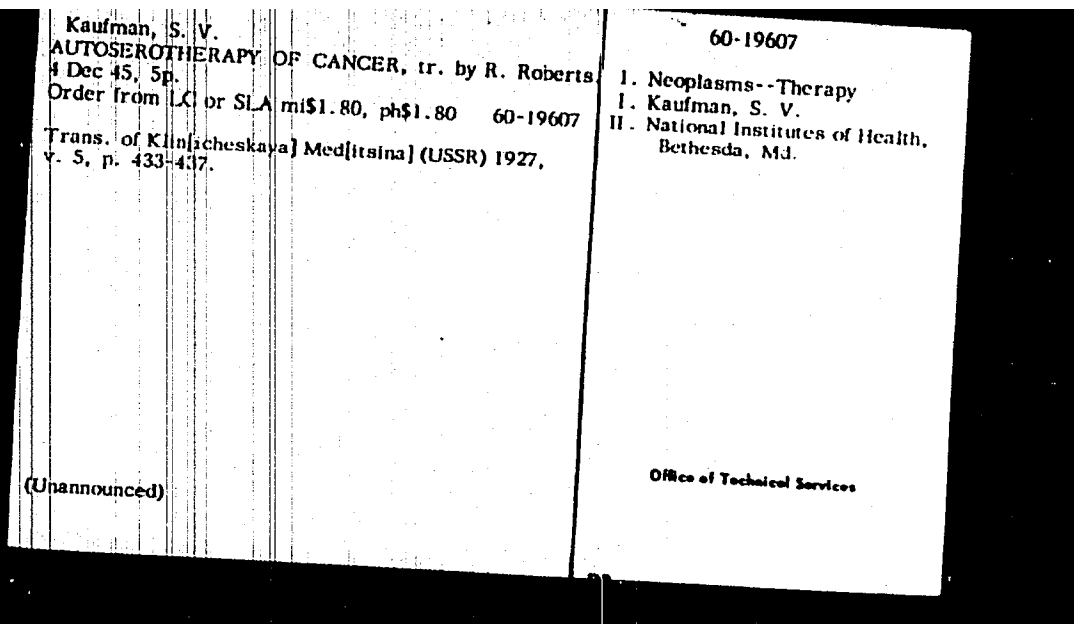
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