

INDEX - T.O.M. REEL 300
(Original Designation FIAT Reel R-19)
PB L73594
Documents taken from I.G. Farbenindustrie A.G.,
Ammoniak Laboratory, Oppau.

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- 6489-6496. Chlorination of methane at high temperatures according to Dr. Flemming. A method for the technical production of methyl chloride and methylene chloride. Laboratory Rept. No. 1593, by Dr. Riegelbauer, dated Oct. 30, 1939. (One diagr. attached.) (Work was carried out during May-Aug. 1939.)
- 6497-6512 Chain length of fatty acids in the fat of goats which were fed with synthetic fat. Laboratory Rept. No. 1595, by Dr. Schiller, dated Feb. 15, 1940. (One diagr. and six graphs attached.) (Work was carried out during Aug.-Dec. 1939.)
- 6513-6519 Analysis recorder for ethylene oxide. Laboratory Rept. No. 1598, by Dr. Schaffernak, dated Mar. 16, 1940. (One graph and one diagr. attached.) (Work was carried out during March-Sept. 1939.)
- 6520-6532 The determination of phosphorus, sulfur, and arsenic compounds in acetylene. Laboratory Rept. No. 1599, by Dr. K. Hieke and Dr. Friedr. Grassnar, dated Feb. 28, 1940. (Two photos, two diagrs. and list of twenty references included in report.)
- 6533-6566 Analysis of the fatty acids for soaps made from "Riebeck"-paraffin and "Fischer-Gatsch". Laboratory Rept. No. 1601, by Dr. B. Weiss and Dr. Haase, dated May 6, 1940. (Seventeen pages of graphs attached.)
- 6567-6577 The cracking of gasol with long-lived catalysts. Laboratory Rept. No. 1602, by Dr. Rudolf Seidler, dated Apr. 12, 1940. (Two graphs attached.)
- 6578-6587 The formation of films from phosphoric acid and metal oxides. Laboratory Rept. No. 1603, by Dr. S. Mohr, dated May 10, 1940. (Two graphs attached.)
- 6588-6595 Increasing the effect preventing blood coagulation by aliphatic hydroxycarboxylic acids and multivalent alcohols. Laboratory Rept. No. 1604, by Dr. Brandeis, dated June 27, 1940. (Work was carried out during Feb.-June 1940.)
- 6596-6613 Urea as fodder for livestock. Laboratory Rept. No. 1605, by Dr. Claren, dated July 8, 1940.

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- 6614-6629 Examination of the adsorption of synthetic detergents on thin celluloid foils by means of electron diffraction. Report by Rieder, dated June 28, 1940. (One table included in report.) (Work was carried out during Oct. 1938-Oct. 1939.)
- 6630-6645 Comparative determination of the particle sizes of carbon blacks used in rubber by means of X-rays and electron-rays. Laboratory Rept. No. 1604, by Dr. Herbst and Dr. Rieder, dated July 4, 1940. (Two graphs attached.)
- 6646-6656 Alcoholysis of lignin. Laboratory Rept. No. 1608, by Dr. Funke, dated July 29, 1940. (Work was carried out during Nov. 1938-May 1940.)
- 6657-6667 Determination of the content of normal paraffins in gasolines, middle oils, and paraffins. Laboratory Rept. No. 1609, by Dr. Leithe, dated Aug. 2, 1940. (One table attached.)
- 6668-6685 Analysis of fatty acids for soaps from "T.T.H." paraffin. Laboratory Rept. No. 1611, by Dr. Hease, dated Aug. 8, 1940. (Nine pages of graphs attached.)
- 6686-6699 Preparation of butadiene from acetylene and ethane. Laboratory Rept. No. 1612, by Dr. Rudolf Seidler, dated June 24, 1940. (Three tables included in report.) (Work was carried out during Sept. 1938-Feb. 1939.)
- 6700-6722 The odor of soaps from paraffin oxidation. Laboratory Rept. No. 1614, by Dr. Leithe, dated Jan. 30, 1939. (One graph attached.)
- 6723-6740 Determination of the amount of iso-paraffin in natural and synthetic soft and hard paraffins. Laboratory Rept. No. 1615, by Dr. W. Leithe, dated May 13, 1939. (Six graphs attached.) (Work was carried out during March-May 1939.)
- 6741-6761 Conversion of methane with steam and carbon dioxide into carbon monoxide and hydrogen mixture of ratio 4:5. Laboratory Rept. No. 1618, by Dr. Knobloch, dated Sept. 5, 1940. (One graph attached.)
- 6752-6764 Pressure tests for the production of paraffin from carbon monoxide and hydrogen according to the Fischer method. Status at the end of 1938. Laboratory Rept. No. 1620, by Dr. Kotzschmar, dated Jan. 2, 1939. (One table and one diagr. attached.) (Work was carried out during June 1937-Dec. 1938.)

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- 6765-6820 The determination of physical data for polymer gasoline plants. Laboratory Rept. No. 1621, by Dr. Hagen, dated Dec. 10, 1937. (Sixteen graphs, three diags. and list of fifty-one references attached.)
- 6821-6846 Fats of fatty acids with an odd number of carbon atoms. Laboratory Rept. No. 1622, by Drs. Appel, Berger, Böhm, Keil and Schiller, dated Feb. 3, 1940. (Numerous photos, graphs, and tables and one diag. included in report.)
- 6847-6860 Production of a 2,3-dichloro-1,4-dioxan and glyoxal. Laboratory Rept. No. 1623, by Dr. Lintner, dated Feb. 16, 1939. (Two graphs included in report.) (Work was carried out during Nov. 1938-Mar. 1939.)
- 6861-6870 Conversion of methane to carbon monoxide and hydrogen in the ratios of 1:1, 1.5:1, and 2:1. Laboratory Rept. No. 1624, by Dr. Knobloch, dated Oct. 2, 1940.
- 6871-6884 Reaction products of 2,3-dichlorodioxan. Laboratory Rept. No. 1625, by Dr. Lintner, dated June 25, 1940. (Work was carried out during April 1939-May 1940.)
- 6885-6893 Determination of the position of double bonds in olefins from the CO-H₂ synthesis of the paraffin cracking and dehydrogenation. Laboratory Rept. No. 1626, by Dr. Leithe and Dr. Eder, dated Oct. 22, 1940.
- 6894-6900 Physiology and toxicology of synthetic fat. Laboratory Rept. No. 1629, by Dr. Keil, dated Nov. 19, 1940. (Work was carried out during July 7, 1939-Aug. 4, 1940.)
- 6901-6909 The behavior of fed formic acid in the digestive tract of the ruminant. Laboratory Rept. No. 1638, by Dr. Claren, dated Feb. 8, 1941. (Work was carried out during Oct. 1939-Dec. 1940.)
- 6910-6936 Behavior of polyamides at elevated temperature. Laboratory Rept. No. 1643, by Dr. R. Brill, dated Feb. 26, 1941. (Photos, graphs and diags. attached.)
- 6937-6944 Separation of dicarboxylic acids and monocarboxylic acids based on their different dissociation. Laboratory Rept. No. 1645, by Dr. Abrahamovic, dated Mar. 18, 1941.
- 6945-6954 Reaction of methane with steam under pressure. Laboratory Rept. No. 1646, by Dr. Knobloch, dated Mar. 11, 1941. (Three graphs, one diag. and one table attached.) (Work was carried out during Oct.-Dec. 1940.)

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- 6955-6977 Alkylation products from isobutane with butenes or propylene. Laboratory Rept. No. 1647, by Dr. Blumel, dated Apr. 15, 1941. (Five graphs and seven tables included with report.) (Work was carried out during Oct. 1940-Feb. 1941.)
- 6978-7012 Some new results from the ammonia catalyst. Laboratory Rept. No. 1652, by Dr. Brill and Dr. Peters, dated Apr. 15, 1941. (Numerous graphs and photos and one diagr. attached.) (Work was carried out during April 1939-Dec. 1940.)
- 7013-7017 Determination of the bromine number in gasolines and other olefin-containing substances. Laboratory Rept. No. 1653, by Dr. Klein, dated May 22, 1941.
- 7018-7034 Production of allylamine from allyl mustard oil. Laboratory Rept. No. 1655, by Dr. Stade, dated May 21, 1941. (Four graphs attached.) (Work was carried out during March-Sept. 1940.)
- 7035-7047 Tests for producing aliphatic bis-diazo-paraffins. Laboratory Rept. No. 1656, by Dr. Hummel, dated May 28, 1941.
- 7048-7058 X-ray examination of disintegrated buna. Laboratory Rept. No. 1659, by Dr. Herbst, dated May 15, 1941. (Page of figures attached.) (Work was carried out during Oct.-Nov. 1940.)
- 7059-7067 Alkali-soluble aldehyde resins. Laboratory Rept. No. 1660, by Dr. G. Rössler, dated May 19, 1941. (Two tables included in report.) (Work was carried out during Nov. 1940-April 1941.)
- 7068-7075 X-ray examination of some polyethylene products. Laboratory Rept. No. 1661, by Dr. Herbst, dated Sept. 4, 1941. (Six figures attached.) (Work was carried out during April-May 1941.)
- 7076-7087 X-ray examination of the action of methylamine on cellulose. Laboratory Rept. No. 1663, by Dr. Brill, dated July 30, 1941. (Eleven photos attached.) (Work was carried out during June-July 1939.)
- 7088-7104 Behavior of calcium in the ammonia catalyst towards poisoning. Laboratory Rept. No. 1667, by Dr. Brill and Dr. Peters dated Oct. 15, 1941. (Six figures consisting of graphs and photos attached.) (Work was carried out during Dec. 1940-Sept. 1941.)

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- 7105-7124 The reaction speed of carbon monoxide on the "brown-oxide" catalyst under increased pressures. Laboratory Rept. No. 1672, by Dr. Bartholome, dated Nov. 26, 1941. (Six graphs and two diags. attached.) (Work was carried out during 1940.)
- 7125-7135 Examinations of the structure of thin films from polyamides by means of electron diffraction. Laboratory Rept. No. 1673, by Dr. Brill and Dr. Rieder, no date given. (Two diags. and four photos included with report.) (Work was carried out during Jan.-May 1941.)
- 7136-7147 X-ray investigation of the temperature resistance of a new hexagonal iron carbide in catalysts for the hydrocarbon synthesis according to F. Fischer. Laboratory Rept. No. 1676, by Dr. M. Herbst, dated Jan. 13, 1942. (Fifteen X-ray diffraction patterns attached.) (Work was carried out during Oct.-Nov. 1941.)
- 7148-7159 Determination of water in lower fatty acids and their mixtures. Laboratory Rept. No. 1678, by Dr. F. Müller and Dr. F. Grassner, dated Jan. 24, 1942. (One diag. attached.)
- 7160-7173 Identification and constitution of branched acids from the Fischer-Gatsch fatty acids for soaps. Laboratory Rept. No. 1680, by Dr. G. Melan and Dr. B. Weiss, dated Feb. 14, 1942. (One diag. incl. in report.)
- 7174-7184 Preparation of carboxylic acids by adding derivatives of formic acid on olefinic double bonds. Laboratory Rept. No. 1682, by Dr. Stade, dated Mar. 25, 1942. (Work was carried out during Aug. 1940-Jan. 1942.)
- 7185-7205 Nitration of propane and some reaction products of the nitroalkanes. Laboratory Rept. No. 1684, by Dr. E. Finck, dated May 4, 1942. (One diag. and four tables incl. with report.) (Work was carried out during Oct. 1940-March 1942.)
- 7206-7220 Examination of crystalline inclusions in "Igamid" die-casting material. Laboratory Rept. No. 1700, by Dr. M. Herbst, dated Dec. 28, 1942. (Eight figures attached.) (Work was carried out during Nov.-Dec. 1942.)
- 7221-7234 X-ray examinations for explaining the crystalline structure of the triphenylmethane dyes. Laboratory Rept. No. 1719, by Dr. Krebs, dated June 21, 1943. (Four X-ray photos and two structure diags. incl. in report.) (Work was carried out during Feb.-May 1940 and Nov. 1940-June 1941.)

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- 7235-7266 The action of admixtures in the ammonia catalyst as stabilizers against thermal sintering and as poison catchers. Laboratory Rept. No. 1727, by Dr. Peters, dated Feb. 21, 1944. (Numerous graphs and X-ray photos included in report.) (Work was carried out during 1942/43.)
- 7267-7302 Influence of admixtures in the ammonia catalyst on the number and the energy-level of the active centers. Laboratory Rept. No. 1728, by Dr. Peters, dated Feb. 16, 1944. (Numerous graphs and tables incl. in report.) (Work was carried out during 1942/43.)
- 7303-7325 Isomerization of n-butane with aluminum chloride catalysts. Laboratory Rept. No. 1721, by Dr. Vogel, dated July 28, 1943. (Four diagrs. attached.) (Work was carried out during March 1942-April 1943.)
- 7326-7329 The isomerization of n-butane. Report by Vogel and Jannek, dated May 9, 1942.
- 7330-7334 Process for the isomerization of n-butane. I.G. Farbenindustrie Pat. Appl. O.Z. 14,150, dated May 4, 1943.
- 7335-7347 Catalyst research. Isomerization of n-butane with aluminum chloride catalysts. Report by Vogel. (Work was carried out during March 1942-April 1943.) (Pages 1,3, 6 and 7 of report are missing.)
- 7348-7354 Isomerization of hydrocarbons. Patent application by Vogel, dated March 26, 1943.
- 7355-7370 Determination of olefins and aromatic substances in hydrocarbon mixtures. Laboratory Rept. No. 1649, by Dr. Schlenk, dated April 7, 1941. (Work was carried out during Dec. 1940-Feb. 1941.)
- 7371-7420 Examination and evaluation of starting materials for the synthesis of paraffin-lubricating oil. Laboratory Rept. No. 1664, by Dr. Baumeister, dated Oct. 6, 1941. (Forty-one tables attached.) (Work was carried out during 1938-1941.)
- 7421-7432 Determination of the reactivity of cokes. Laboratory Rept. No. 1674, by Dr. Fr. Grassner, dated Jan. 6, 1942. (One diagr., one graph and list of references incl. in report.)

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- 7433-7440 Determination of very small quantities of phosphorus in oils and gasolines. Laboratory Rept. No. 1684, by Dr. Fr. Grassner, dated June 13, 1942.
- 7441-7465 The refraction-density number as a value for the classification of hydrocarbons in gasolines. Laboratory Rept. No. 1689, by Dr. Rudolf Seidler, dated May 26, 1942. (Eight graphs and two tables attached.) (Work was carried out during Nov. 1941-Jan. 1942.)
- 7466-7488 The determination of the content of aromatic substances, naphthenes and paraffins in gasoline by dispersion, refraction, and density. Laboratory Rept. No. 1694, by Dr. Leithe, dated Oct. 19, 1942. (Five diags., three tables, and two graphs included in report.) (Work was carried out during July-Oct. 1940 and May-Sept. 1942.)
- 7489-7509 Alkylation of isobutane with dehydrogenation mixtures from isobutane or n-butane. Laboratory Rept. No. 1723, by Dr. Blümel, dated Oct. 28, 1943. (Four graphs, one diagr. and one photo attached.) (Work was carried out during Nov. 1942-April 1943.)