

INDEX - MICROFILM REEL 177
(Original designation Navy 5868-2)

Part 6.

1226-1461

The Wesseling fuel installation and its operation from 1941-1944. A complete summary of activities.

Part 7.

1462-1785

Patent application of Ruhrchemie on the subject of CO-hydrogenation.

A collection of patent application on the Fischer-Tropsch synthesis dating from 1941 through 1944. These patent applications are generally not available in the U. S. Some 80 patents are listed, most of them are complete, others merely listed with patent claim.

Part 8.

1786-1873

Book of standardized glands & packings for pumps at Leuna.

Part 9.

1874-2536

1. Aviation gasoline - general alkylation: AT-ET, DHD, KK, Preparation of high fuels from 5058/6434 gasoline - 190°C. from Scholven-after the method of D.H.D. Aug. 28, 1942. 9 pgs. (High pressure Experiment Lu 558).
2. The working up of Zeitzer TTH-Gasoline to high performance fuel after the method of DHD. Oct. 23, 1943. 8 pgs. (High pressure Experiment Lu 1).

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3. Overall cost figures for automobile gasoline and DHD preliminary product from coal in a Lu-Op. plant. 11/4/42. 12 pages.
4. Testing of DHD-catalyst on clay from Oppau and clay from Dr. V. Funer. 2/4/1942. 16 pages.
5. A letter dated June 3, 1942, concerns DHD gasoline making. Includes two flow sheets of the methods.
6. Quality of DHD-gasoline from "estnischen." Shale oil. 9/19/41
7. Possible operating date and capitalization of the DHD plant. Jan. 30, 1943.
8. File notice of a meeting in Berlin on 2/18/44 concerning various problems of gasoline and lubricating oil. 2/18/44.
9. DHD balance sheet. 2/17/44.
10. A chart showing yields and properties of aviation gasoline from different methods.
11. Production of DHD-gasoline from 5058 pre-hydrogenated gasoline from Merseburg. Hydrogenation 11/1/41. I.G. Farben, Ludwigshafen 9 pgs + 12 tables + 5 drawings.
12. AT244 - Exchange of experience conference - May 14 and 15, 1944, at Leuna. Contains a summary of the conference on T-52 process and 18 papers delivered at the conference (204 pages.).
13. Scheme for the redistillation of DHD gasoline. Drawing # M8626(2)-4. A flow sheet.
14. AT-catalyst plant at Heydebreck Feb. 10, 1943, contains a report on production of active clay. 10 pages.
15. Flow sheet of the AT (activated clay) plant. - 1941.
16. Report on visit to Leuna by V. Costeanu. 7/2/44. Contains report on the various processes of making aviation fuel. The report includes flow sheets and drawing.
17. File notice - Leuna works - May 2, 1944. Auxiliary drying the dehydrogenation catalysts at the AT plant with isobutane.
18. Production of high anti-knock isoparaffin fuels by means of alkylating alicyclic hydrocarbons - Dr. Pohl. Leuna, 1/6/43. 33 pages, drawing and graphs.
19. HV-CRI - catalysts for catalytic cracking, April 17, 1939, I. G. Farben. 23 pages.
20. Catalytic cracking in fixed bed - report on the K. K. Experimental Plant Me56 at Leuna - Dr. Pobleth. Sept. 1943 (Report #414 of the Experimental Laboratory) 17 pages + flow sheets and diagrams.
21. Experiment and theory of catalyst regeneration by the catalytic cracking-slucce method - Otto. Aug. 1, 1943. 33 pages plus 27 pages of flow sheet drawings.
22. Catalytic cracking - according to the conditions of June, 1942. Leuna, July 27, 1942. Investigation of catalyst regeneration in moving bed chamber and fixed bed chamber - Otto.
23. Delivery specification for "Robin."

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24. The determination of normal paraffins content in gasoline, middle oil and paraffins. - Dr. Leithe, August 2, 1940, Oppau. 7 pages + tables.
25. Kybol-Plant - June 2, 1942. Ludwigshafen report covers the plants for the production of propyl-gasolines from propane and the making of Kybol from ethylene and propylene.
26. Aromatization of middle oil from bituminous coal liquefaction. April 10, 1941. 12 pages.
27. Technical possibilities of increasing aviation gasoline production. - Sept. 23, 1943, Berlin. 5 pages.
28. Gas explosions - W. Jost - A reprint from Zeitschrift J. Electrochemie 47, 680-87 (1941).
29. Experiments on flame velocity I. concerning the theoretical calculation of flame velocity - W. Jost and L. V. Muffling. A reprint from "Zeitschrift & Physikalische Chemie (A) 181 208-14, 1938.
30. The physical-chemical basis for combustion in engines - W. Jost. Reprint from Vol. 9, May, 1939, of the German Academy of Air.
31. Calculation for a benzol hydrogenation plant. Me 958a. - Leuna, Aug. 22, 1942. Covers the reaction, equipment and calculation necessary for the process - 11 pages, flow sheets and diagrams included.
32. Alkylation of Kogasin - cracked products - June 8, 1943. 3 pgs.
33. Report on the experiment. Using a drying oven for dehydrogenation catalysts in Me 956. Leuna works, 8/14/44. 6 pgs. drawings.
34. Report on the improvements in dehydrogenation chamber, Leuna works, Sept. 10, 1943. 3 pgs. + 2 drawings and 12 graphs.
35. Catalytic studies - position as of Feb. 1, 1944. Report #1104.
36. Graphs - miscellaneous nature - 18 in all.
37. T52-B4 - alkylation of basic butylaldehyde mixture. A flow sheet.
38. T52-B3 - alkylation with dehydrogenated N-butylaldehyde. Flow sheet.