

INDEX -- MICROFILM REEL 211
(Original designation Navy 5939-2)

All information given in this reel is dated prior to 1942.
This reel deals entirely with the production of hydrocarbons by
the hydrogenation of coal, asphalt, tars, etc. Some of the
detailed topics follow:

1. Detailed discussions for the aromatization and dehydrogenation of hydrocarbons from coal to produce aviation gasoline.
2. Hydrogenation of higher alcohols from the isobutanol process.
- ~~3. Aircraft gasoline from coal.~~
4. Asphalt-free and aircraft gasoline from Gelsenberg coal.
5. The production of carbon electrodes from coal.
- ~~6. Gasoline from upper Silesian coal.~~
7. Analytical results on the hydrogenation of different coals.
- ~~8. Manufacturing and equipment costs for the production of water gas.~~
9. Hydrogen consumption in the production of gasoline from different coals.
10. Products obtained in the high pressure hydrogenation of hard coal, brown coal, and brown coal tar.
11. Yields of C1 to C5 hydrocarbons by the hydrogenation of coal over different catalysts.
12. Dehydration of coal.
13. Cost estimate for installation of equipment for the production of fuel oil from coal.
14. Calculations for the conversion of Gelsenberg coal to gasoline by vapor-phase hydrogenation.
15. A series of papers on cost estimates for the production of aviation gasoline from various hydrocarbon sources.
16. Production of high pressure, high temperature; cylinder oil.
17. Synthesis of high temperature cylinder oil from chlorinated paraffins by dehydrohalogenation to the olefin and subsequent polymerization.
18. Comparison of polymerization processes for ethylene and propylene lubricating oils.