

(U) Chemical Engineering Data and
Control Apparatus.

170. Pressure control for highly viscous solutions.
171. Patent application on combination electro-hydraulic control valve.
172. Pressure and volume indicator.
173. Compressibility of industrial gases.
174. Report on meeting on technical thermodynamics and heat problems.
175. Investigation of a column with steatite plates.
176. Experiences with flat bubble caps.
177. Report on effect of direction of flow and the separation of liquids on distillation column plates.
178. Report on experiments with a novel flow meter.
179. Development of a plate for high flow rates.
180. Calculations for the design of hollow cylinders for high internal pressure at high temperature.
181. Patent application on a valve for the control of solids.
182. Report on tests to increase the throughput of a distillation column.

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BAG 3045

TARGET 30/4.0Z

LEUNA

3045
30/4.02 -- Leuna

(A) - H F Process

1. Description of Moosbierbaum H F Plant.
2. Possibility of using 5058 total Benzine from Brown Coal as feed for the H F Process.
3. Progress Reports on H F Experimental Work, December 1939 to February 1943 -- 16 Reports.

(B) - Toluene from D H D Gasoline

4. Fitting Toluene Distillation into Leuna Hydrogenation Operations.
5. D H D Plant at Leuna as an Emergency Plant for 30,000 tons per year of Toluene.
6. 30,000 tons per year of Toluene by Double D H D at Leuna.
7. Memorandum on Toluene Recovery.
8. Comparison of Toluene Production by Double D H D and by Extraction.
9. Calculations for both methods of Toluene Production, Double D H D and Extraction.
10. Conference on Toluene Production.
11. Toluene Production by Extraction or Double D H D
12. Design Basis for Toluene Project.
13. Report on Toluene Conferences.
14. Report on Visit to Leverkusen.
15. Recovery of Toluene from D H D Gasoline.

(C) - Miscellaneous

16. Investigation of Organic Lead-Iron Carboniles as Antiknock agents.
17. Operating Experiments for Batch Hydrogenation of Adipic Acid Dinitaile to Hexamethylene-dramine.
18. Conversion of chlorhydrins to oxides and carboniles.
19. Report on Hydrocarbon Synthesis Experiments.

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20. Investigation of the Economics of Manufacture of Paraffins
from Low Temperature Brown Coal Tar.

21-30. Reports on Sulfonated Paraffins and Derivatives.

Reel 021 concludes with item 27.

Item 28 begins reel 022.