

INDEX - MICROFILM REEL 220  
(Original designation Navy 5939 - 11)

Pictures of individual Germans (Scientists?) full-face, large, also pictures of plants, close-up of installations, high pressure equipment. Also flow plans and diagrammatic representations of the following:

1. Alkylation of isobutane with n-butylene
2. Coal hydrogenation.
3. Oxidation of propyl alcohol to propionaldehyde by silver catalyst.
4. Dimethylamine manufacture.
5. Leuna synthetics (based on methyladipic acid, adipic acid "Luran" or caprolactam).
6. Preparation of methyl adipic acid.
7. Preparation of cyclohexanone from cyclohexanol.
8. Luran.
9. Manufacture of detergents at Leuna, soaps, wetting agents.
10. Sulfochlorination of meapsin.
11. Sump phase chamber oven.

12. Benzin from coal (several flow sneets).
13. Iso-octane from isobutyl alcohol.
14. Synthetic alcohols from CO & H<sub>2</sub>
15. HNO<sub>3</sub> manufacture.
16. Methanol-isobutyl synthesis.
17. Manufacture of amines (several flow sheets).
18. Alkacid wash and improved Claus oven process.
19. Tar hydrogenation.
20. Ethane cracking.
21. Acetylene arc process.
22. Ethyl chloride by chlorination of ethane.
23. Ethylene oxide via chlorohydrin.
24. Dephenolization plant.
25. Treatment of hydrogenation gases; gas separation of C<sub>2</sub>, C<sub>3</sub>, and C<sub>4</sub>.
26. Production of synthesis gas.
27. Manufacture of methylamine from methanol and ammonia.
28. Manufacture of acetaldehyde via the arc process from CH<sub>4</sub>.
29. Isopropyl ether from propylene.
30. Buna manufacture.
31. Phenol plastics and synthetics.
32. Hydrogenation of coal.
33. Aviation benzin.
34. Benzin from CO and H<sub>2</sub>.
35. Sump phase and gas phase catalysts.
36. Curve showing relation between VI and adherability.
37. Relation between structure and viscosity of hydrocarbons.

Many of these diagrams and flow sheets contain relevant data on reaction conditions, catalysts, etc.