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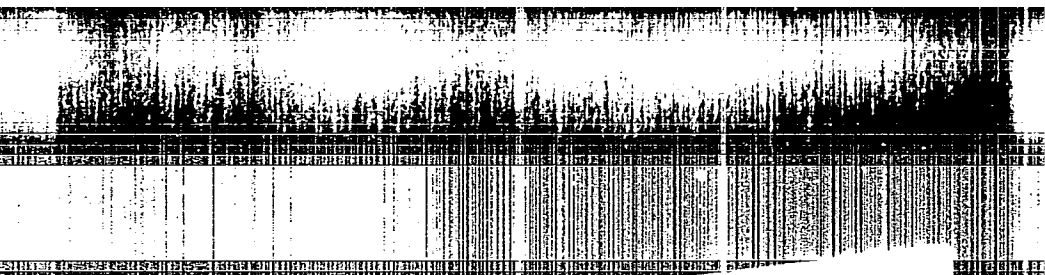
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The process of rupture of the closed binder film upon  
immersion in water has been observed under the  
microscope. First water penetrates through the closed  
binder film to the solid body, where it collects in the  
form of minute bubblets. In some binders, the thinner  
film over such a bubblet then ruptures, thus giving the  
water direct access to the solid. Then only is there  
visible binder displacement (pushing aside), to a  
greater or lesser extent depending on the binder.  
(Materials, TT, v. 5, no. 5)      (over)

61-10208

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Adhesion
  2. Adhesion--Analysis
- I. Wilhelmi, R.
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Office of Technical Services



Binders that are greatly displaced (pushed aside) need not however manifest the poorest adhesion. Binders were tested in which adhesion vanished completely, i.e. which were easily detachable and where comparatively large bubblets were formed between binder coating and the solid body, but where the film of binder would not rupture and withdraw from the solid surface even after very prolonged immersion. (Author)

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Order from SLA mi\$2.70, ph\$4.80      61-10216

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SYNTHESIS OF CYCLODODECATRIENE AND ARO-  
MATIC COMPLEXES. [1962] 1p.  
Order from SLA \$1. 10

62-16744

Trans. of article from an unidentified source, n. d.

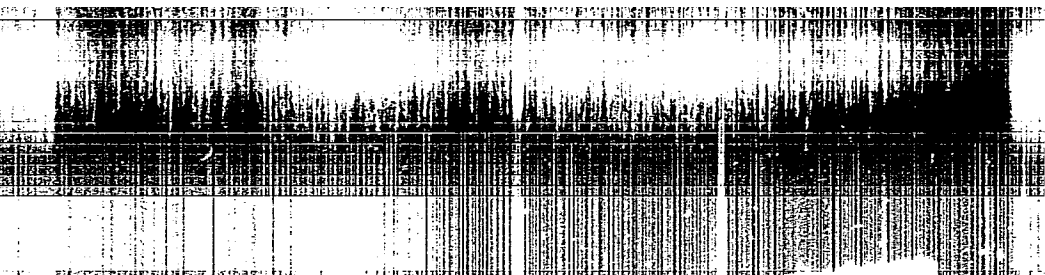
DESCRIPTORS: \*Complex compounds, Benzenes,  
Chromium catalysts, Aluminum compounds, Chlo-  
rides, Chemical reactions.

During the reaction of aluminum triethyl with chromyl  
chloride in absolute benzene, very finely divided  
suspensions of low-valency chromium compounds were  
formed in a mixture with aluminum-organic com-  
pounds. When butadiene is added to such a suspension,  
with vigorous stirring and at 40°C and normal pres-  
sure, a mixture of 40% trans, trans, cis-cyclo-  
dodecatriene-(1, 5, 9) (Fp-18°C) and 60% all-trans-  
(Chemistry--Organic, TT, v. 8, no. 6)      (over)

62-16744

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II. Kröner, M.

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cyclododecatriene-(1, 5, 9) (Fp+34°C) is formed. The primary step of this cyclododecatriene synthesis consists of the formation of a  $\pi$ -electron complex of three butadiene molecules with the transition metal atom of the catalyst. In this complex, the three new C-C bonds are formed. The cyclododecatriene detaches itself subsequently from the chromium atom so that new butadiene molecules may approach. A similar but stable  $\pi$ -electron complex was obtained with the chromium atom of our cyclization catalyst. Six butene-(2) molecules interacted with each chromium atom of the cyclization catalyst, so that two aromatic systems were formed, which, in statu nascendi, led to the stable aromatic complex.

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Vol 203, 1943, pp 178-187.  
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WITH ACETYLENE. Pt. 39 of Metalloorganic Com-  
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Order from SLA \$2.60

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Trans. of [Justus] Liebigs Ann[alen der Chemie]  
(West Germany) 1960, v. 629 [no. 1/3] p. 222-240.

DESCRIPTORS: Metalorganic compounds, \*Aluminum  
compounds, \*Alkyl radicals, \*Acetylenes, Chemical  
reactions.

See also 61-20462

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III. Title: Metalloorganic...

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<p>Wilke, K.-T. THE ACTIVATION OF CdS CRYSTALS. [Feb 63] 5p. Order from ATS 50.00      ATS-25P66G</p> <p>Trans. of Zeitschrift für Physik[alische] Chem[ie] Leipzig (East Germany) 1955, v. 205, p. 73-77.</p> <p>DESCRIPTORS: Crystals, *Cadmium compounds, Sulfides.</p> <p>(Physics--Solid State, TT, v. 9, no. 7)</p>	<p>63-12759</p> <p>I. Wilke, K.-T. II. ATS-25P66G III. Associated Technica Services, Inc., East Orange, N. J.</p> <p>ATS-865-6-J</p> <p>280402</p> <p>Office of Technical Services</p>
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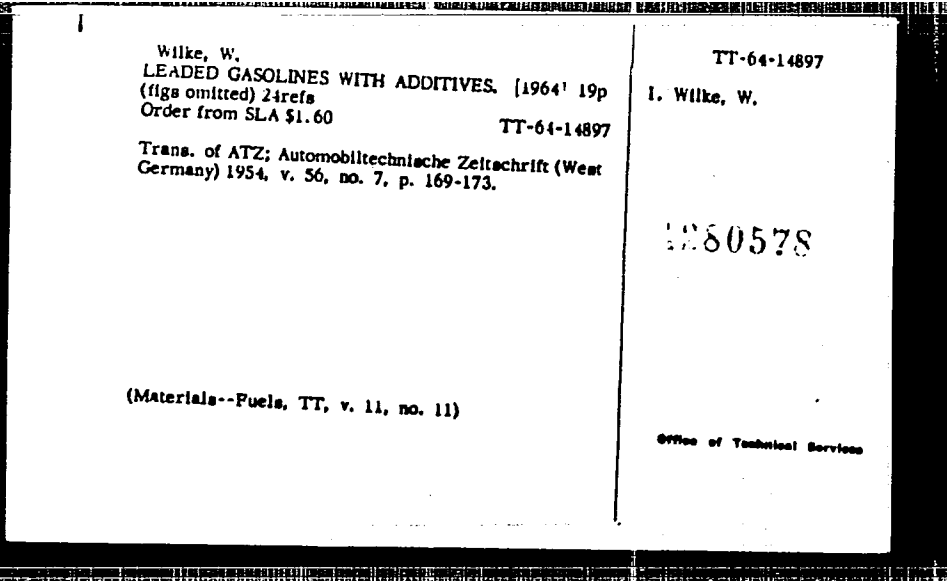
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<p>Trans. of Brennstoff- und Wärmewirtschaft (Germany) 1929 [v. 12] Nov, p. 427-435.</p>	
<p>DESCRIPTORS: *Coal, Coal gas, *Fuel oil, Lubricants, *Benzine, Synthesis, Decomposition, Distillation, Hydrogenation, Hydrocarbons, Organic materials, *Petroleum, Petroleum industry.</p>	<p>230290</p>
<p>(Engineering--Chemical, TT, v. 9, no. 6)</p>	<p>Office of Technical Services</p>



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Contrast Phenomena of Dislocation Pairs in  
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