

000427

3440 - 30/5.01 - 96

C_{10} & C_{11} Hydrocarbons

(Properties)

300428

Dreialkohle aus
Großal. CII
(Spezialsorte)

Dreialkohle aus Hobeltreislauf CII

1. Wahl

2. Wahl

3. Wahl

4. Wahl

-010

-020

-030

-040

-050

-060

-070

-080

-090

-100

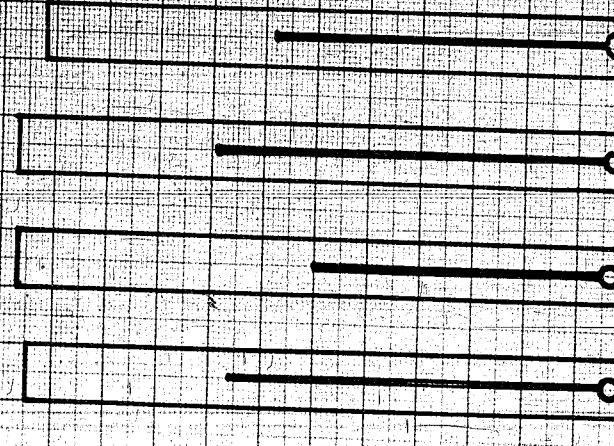
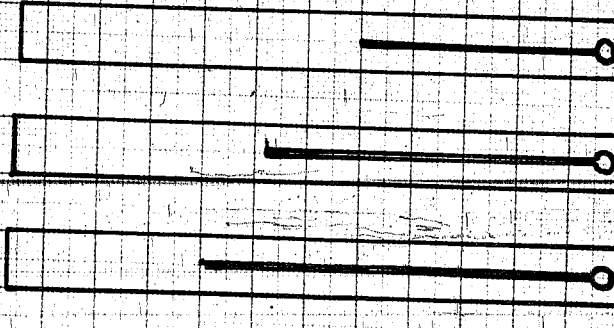
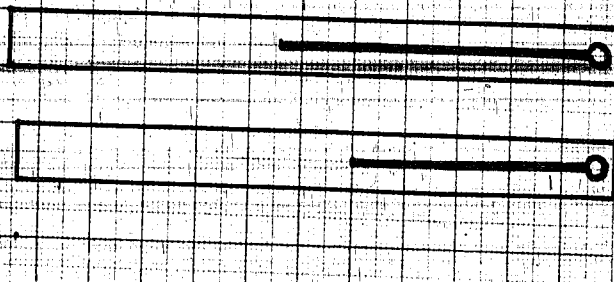
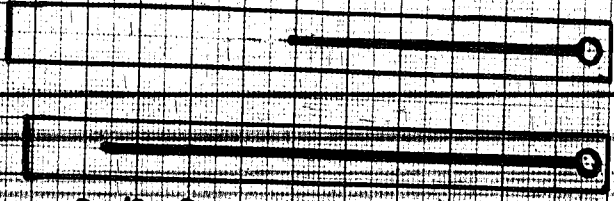
-110

-120

-130

-140

-150



02.10.92 Da

Dicköl von Alkoholen C12

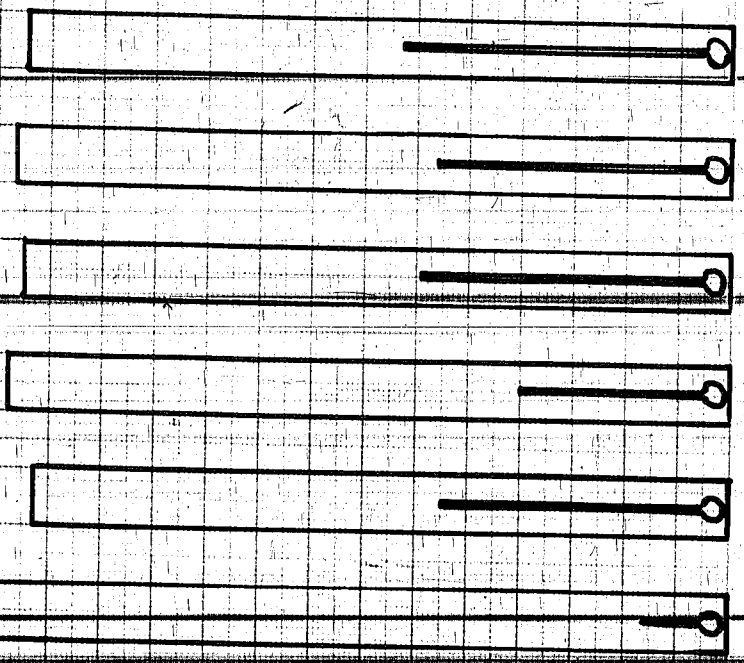
Kobaltkristalllauföl Ca

000129

Kristall
1. Kiesel

1. Kiesel
2. Kiesel
3. Kiesel
4. Kiesel

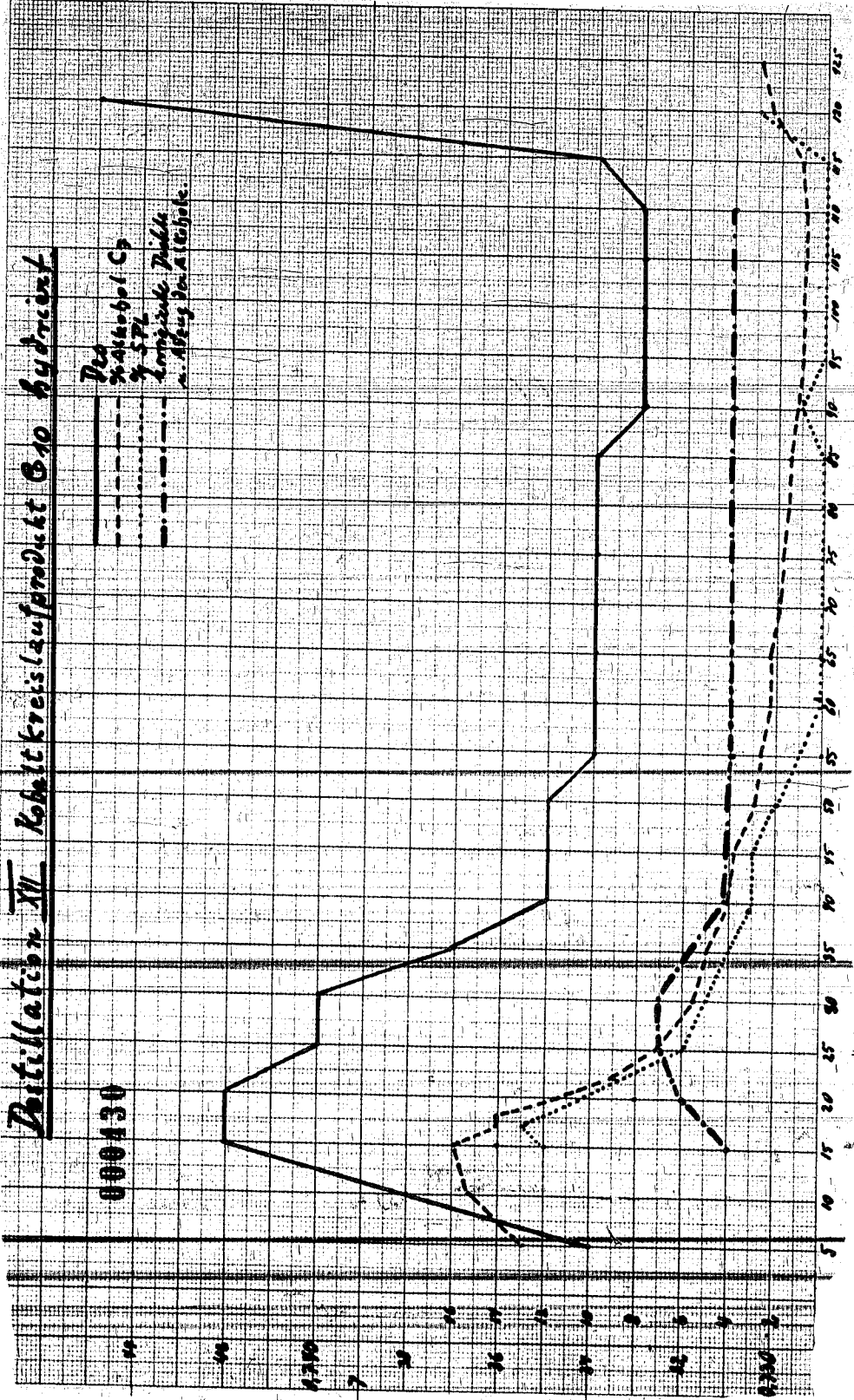
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830 25
820 20
810 15
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Distillation VII. Kobaltkreislaufprodukt C10 hydriert.

000430

———— Red
 - - - - - 2. Alkohol C₇
 ······ 2. SPZ
 - - - - - 2. ungesättigte Dichte
 ······ n. Aldehyd der Alkohol.



C. Mittelwind - Spalten R.A.

Spalten

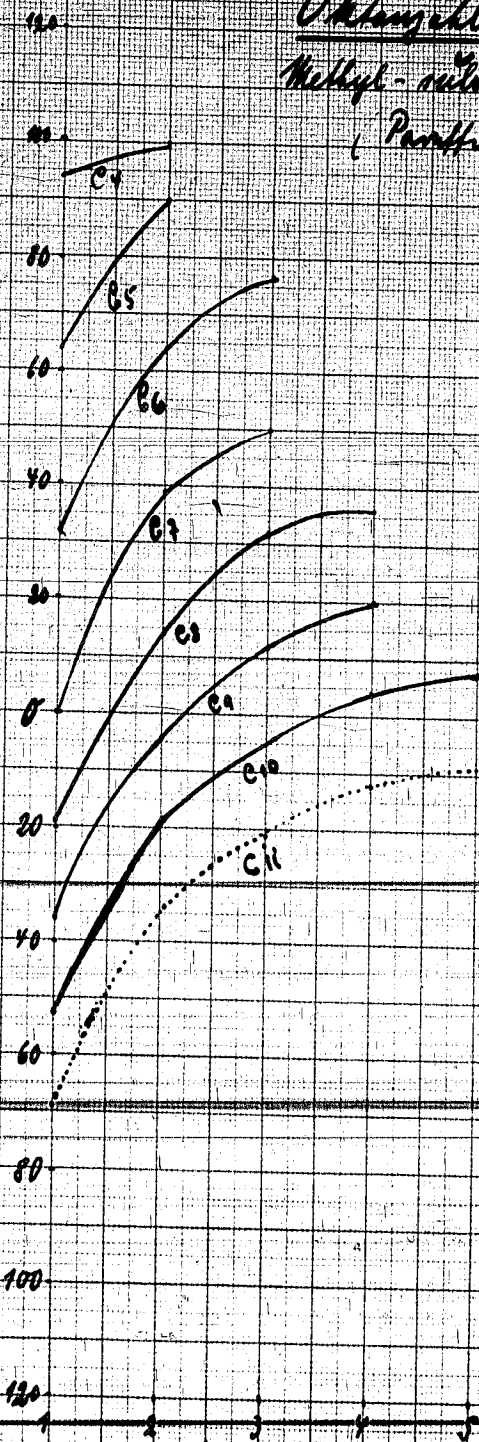
	% bzw	% bzw	% bzw	Pro	Soll No	q ²⁰	Soll No
72 11	0.7	30	70	0.738	0.732	1.4127	1.4112
	- 8.8				0.73797	1.4127	1.41201
74 49	- 26	10	90	0.733	0.728	1.4120	1.4107
					0.73215		1.41087
75 76	- 34	50	50	0.734	0.729	1.4120	1.4110
					0.73097		
76 126	- 40	65	35	0.733	0.7295	1.4118	1.4113

f) DMF = 37 ~ 6,15 % Adk. G₂ mit der Pro = 0.124 und m²⁰ 1.4235
 1.9) DMF = 26 ~ 5,4 %
 1.10) DMF = 15 ~ 3,1 %

De 16. Juni 11

000431

Ökologien
 Methyl-¹⁴C-markierter K.W.F.
 (Paraffine)



000432

Methyl-¹⁴C

6.6.42

Lehane

000434

Beschreibung	d ^o	Diff		Sp	Diff		Sp
		+	-		+	-	
m-Dekam	0.7299	-	-	174.00	-	-	1,4122
2m B ₉	0.728	-	80	166.8	-	7.2	1,4099
3 " B ₉	0.7234	95	-	167.8	-	6.2	1,4125
4 " B ₉	0.7223	24	-	165.7	-	8.3	1,4123
5 " B ₉	0.7225	25	-	165.1	-	9.0	1,4117
2, 2 Di-moll B ₉	0.7245	-	54	152.7	-	27.3	1,4082
2, 3 " " "	0.7284	85	-	163.8	-	10.2	1,4157
2, 4 " " "	0.7246	-	53	153.2	-	20.8	1,409
3 adlyl B ₉	0.728	81	-	166.3	-	7.7	1,4188
2, 5 Di-mollyl B ₉	0.7249	50	-	159	-	15.0	1,4128
2, 6 " " "	0.7291	-	8	158.5	-	15.5	1,4107
2, 7 " " "	0.7226!	-	73	160	-	14.0	1,4082
2, 3 " " "	0.7290	91	-	169.2	-	12.8	1,4165
2, 4 " " "	0.7284	141	-	166	-	8.0	1,417
2, 6 " " "	0.7265	26	-	160	-	14.0	1,4145
4, 5 " " "	0.724	141	-	161	-	13.0	1,4118
4 Pnyl - B ₂	0.7236	61	-	161.2	-	12.5	1,414
3 small Jack B ₂	0.7246	161	-	156.3	-	17.7	1,4119
2, 2, 3 time B ₂	0.7241	111	-	159	-	15.0	1,4160
2, 2, 6 " " "	0.7299	0	0	148.9	-	25.1	1,4077
2, 2, 6 " " "	0.7198	101	-	143.7	-	30.3	1,4057
3, 2, 5 " " "	0.7553	254	-	159.1	-	14.9	1,423
3, 3 Di-moll B ₂	0.7253	221	-	148.1	-	6.0	1,425
2, 2 " " "	0.7244	141	-	157.5	-	8.5	1,4184
2, 2, 2, 4 Klamm B ₂	0.7548	219	-	156.5	-	13.5	1,4224
2, 2, 5 " " "	0.718	-	119	136.7	-	32.5	1,4099
3, 2, 4, 4 " " "	0.72	400	-	162.0	-	12.0	1,431

000435

Eisenpyrrhotite Cu Legend

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A7

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Sp.

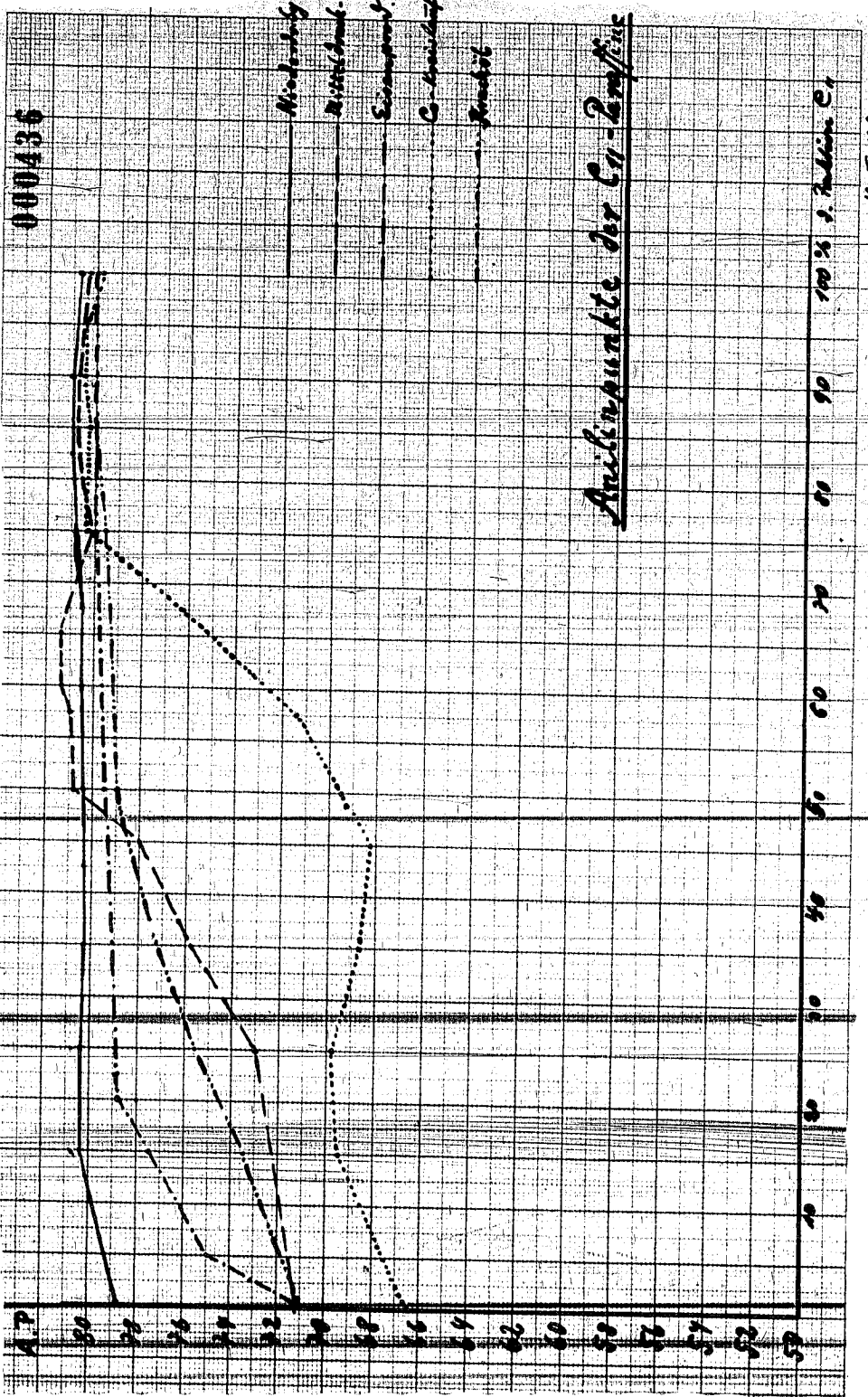
Sp.

Sp.

Sp.

Sp.

000436



Anliegpunkte der C1-Professe

4. 5. 46. Bz.

000437

Stockpunkt kurven

Carbolen wasserstoffe verbinder
Herkauff

- Niederrhein Co.-Gy
- Mitteldeutsch Co.-Gy
- Co-Konzentrat D.F.A.
- Kradöl
- Kaiser-Gy. Bad.



18. 4. 42. Bz.

000438

Kohlenwasserstoffe
Pflanzliche
Kohlensäure
Kohlensäure

C₁₁-Kohlenwasserstoffe
Herkunft

Vorzeitl. 6 m Glomere
Tertiäre 8 m Glomere

Dichte 20°C

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10 20 30 40 50 60 70 80 90 100 % M. Fraktion

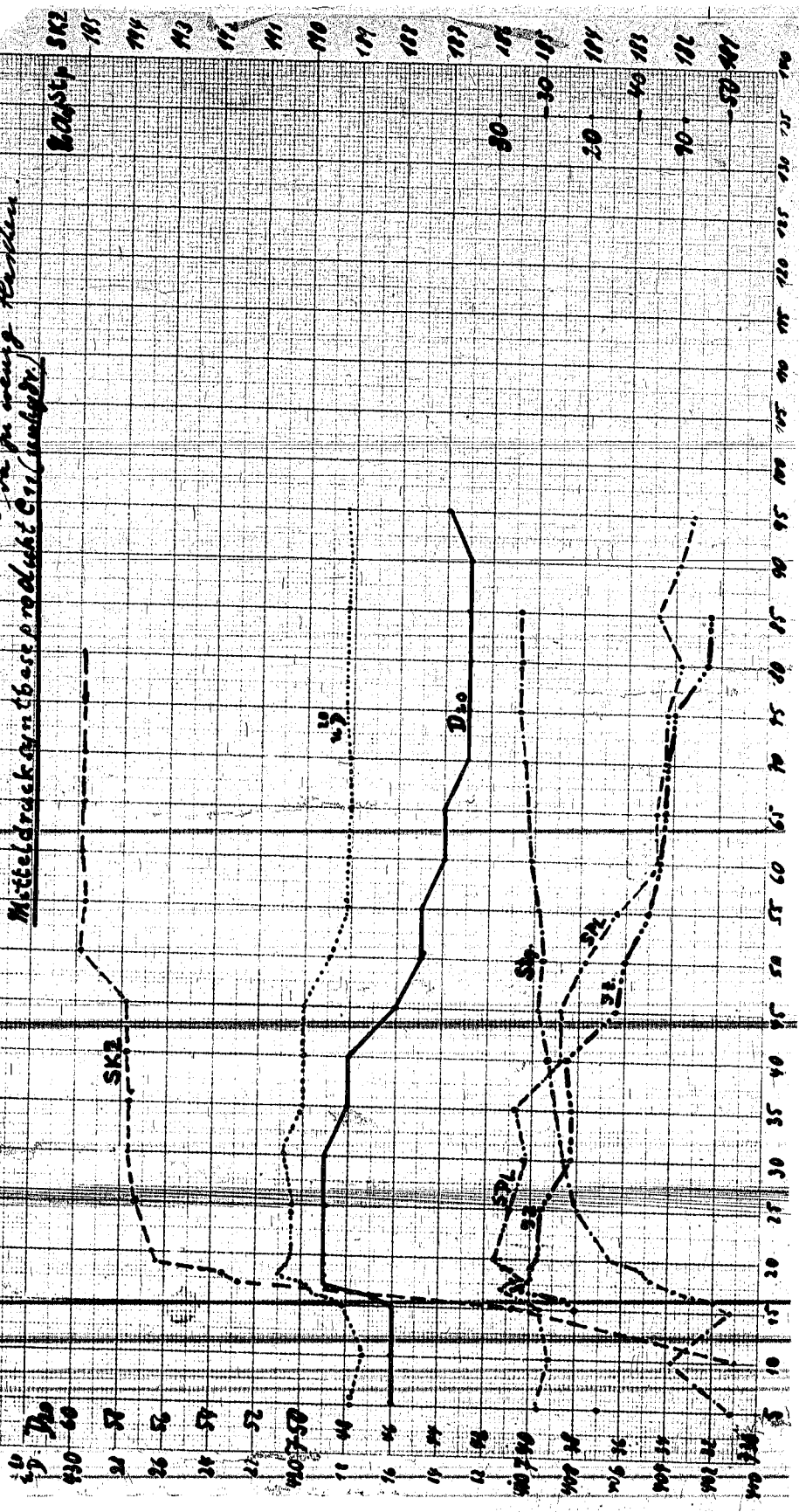
000441

No	KUR	-8	7-9 %		SPL	KUR	KUR	15-100 %		KUR	KUR	Bemerkungen
			So	A. 7				So	A. 7			
0.270	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.271	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.272	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.273	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.274	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.275	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.276	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.277	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.278	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.279	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.280	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.281	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.282	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.283	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.284	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
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0.286	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.287	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.288	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.289	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.290	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.291	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.292	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.293	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.294	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.295	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.296	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.297	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.298	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.299	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	
0.300	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	

000442

Distillation

(mit Weibold /
in der weing. Technik)
Mitteldruck synth. prodest. C₁ (unbep.)

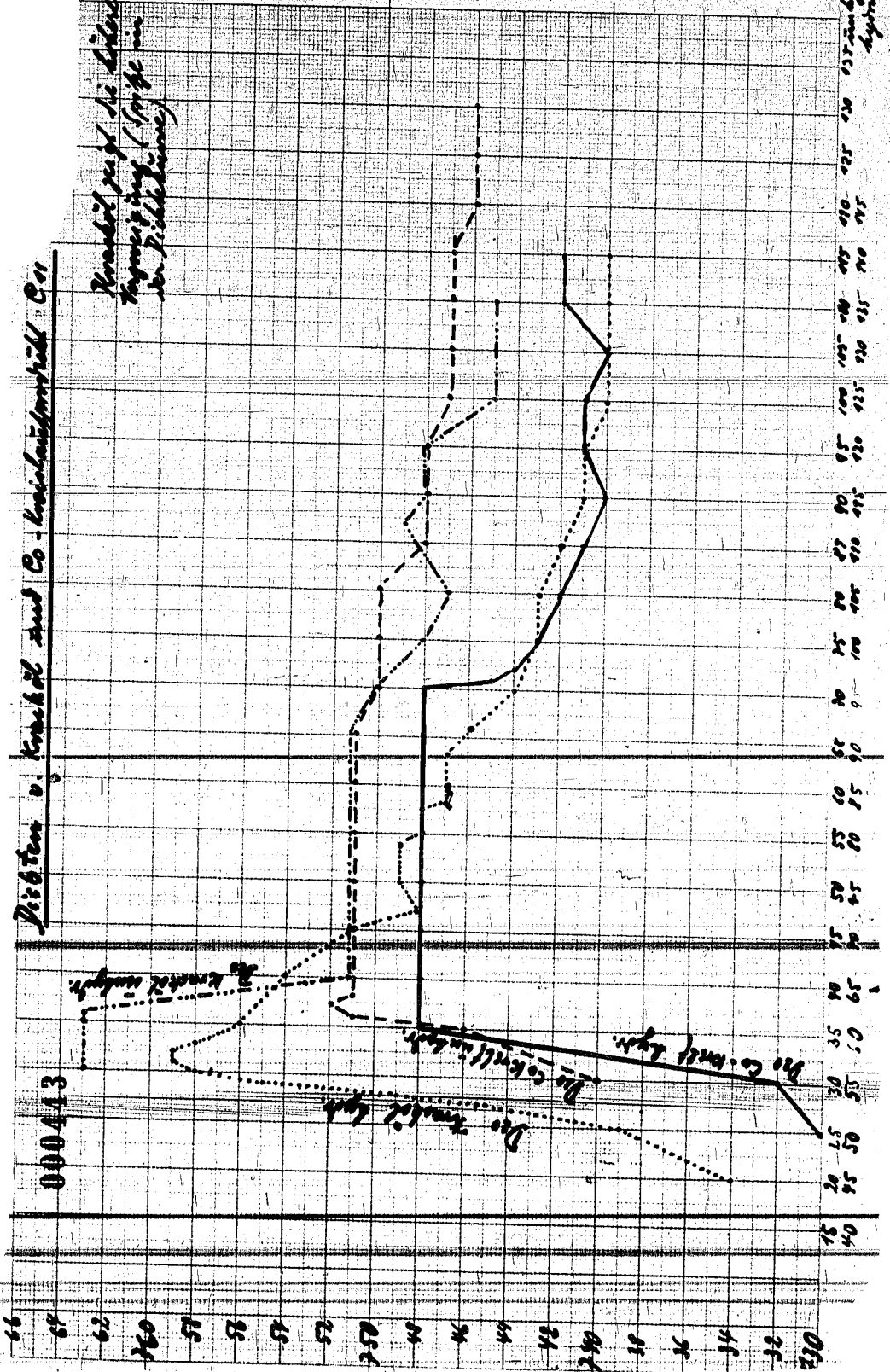


SK2 105
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Dichten v. Knochel und Co - Kreislaufmischöl C-1

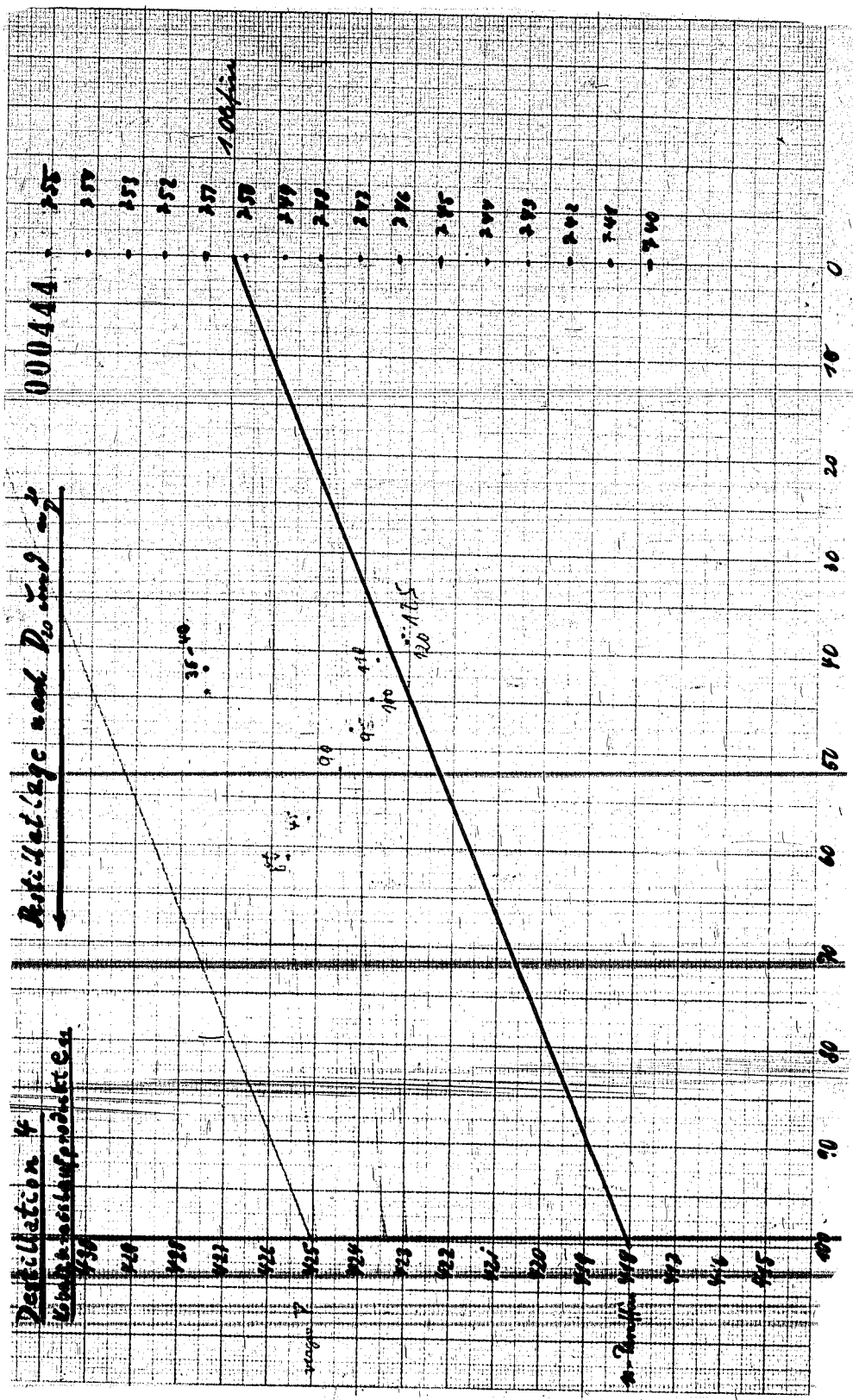
Knochel zeigt die Dichte
Temperatur (siehe in
der Dichtebüchse)



28. 11. 91. B2

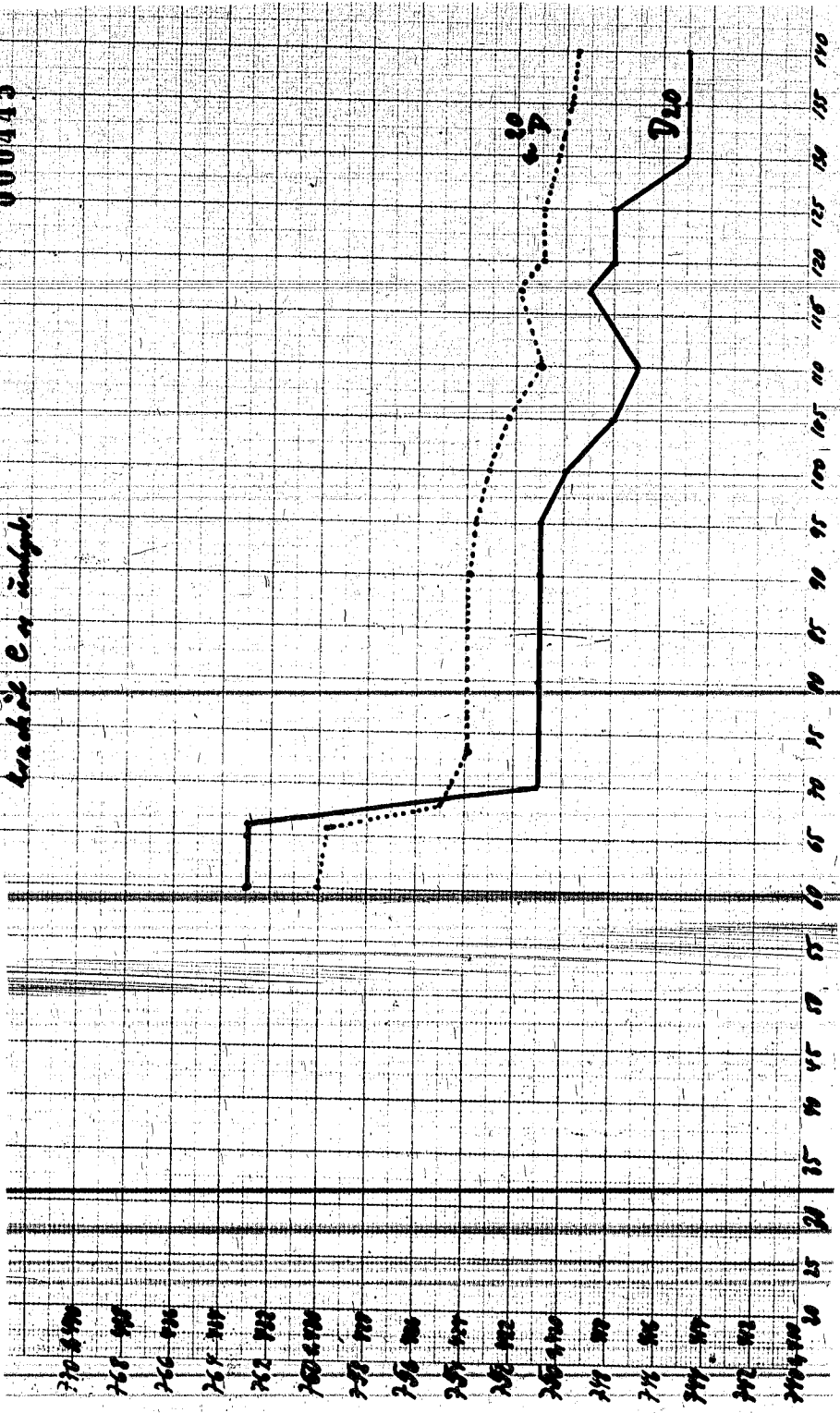
Distillation 4
Kisbárány-alkohol

Relatív sűrűség D_{20}^{20}



Particulation I
 Machil Co. output

000445

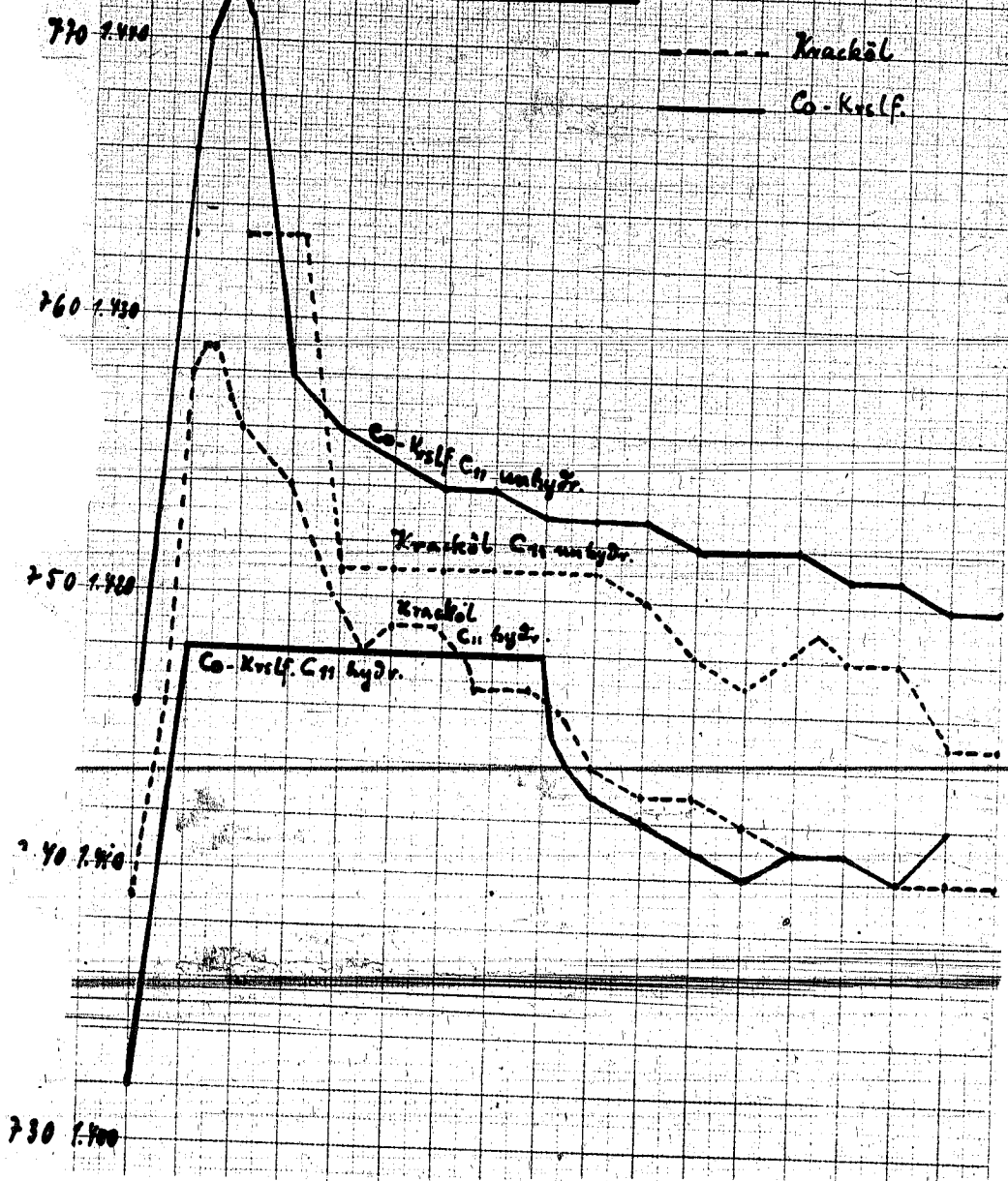


270 6490
 268 498
 266 696
 264 418
 262 782
 260 410
 258 910
 256 800
 254 514
 252 492
 250 470
 248 800
 246 594
 244 492
 242 492
 240 410

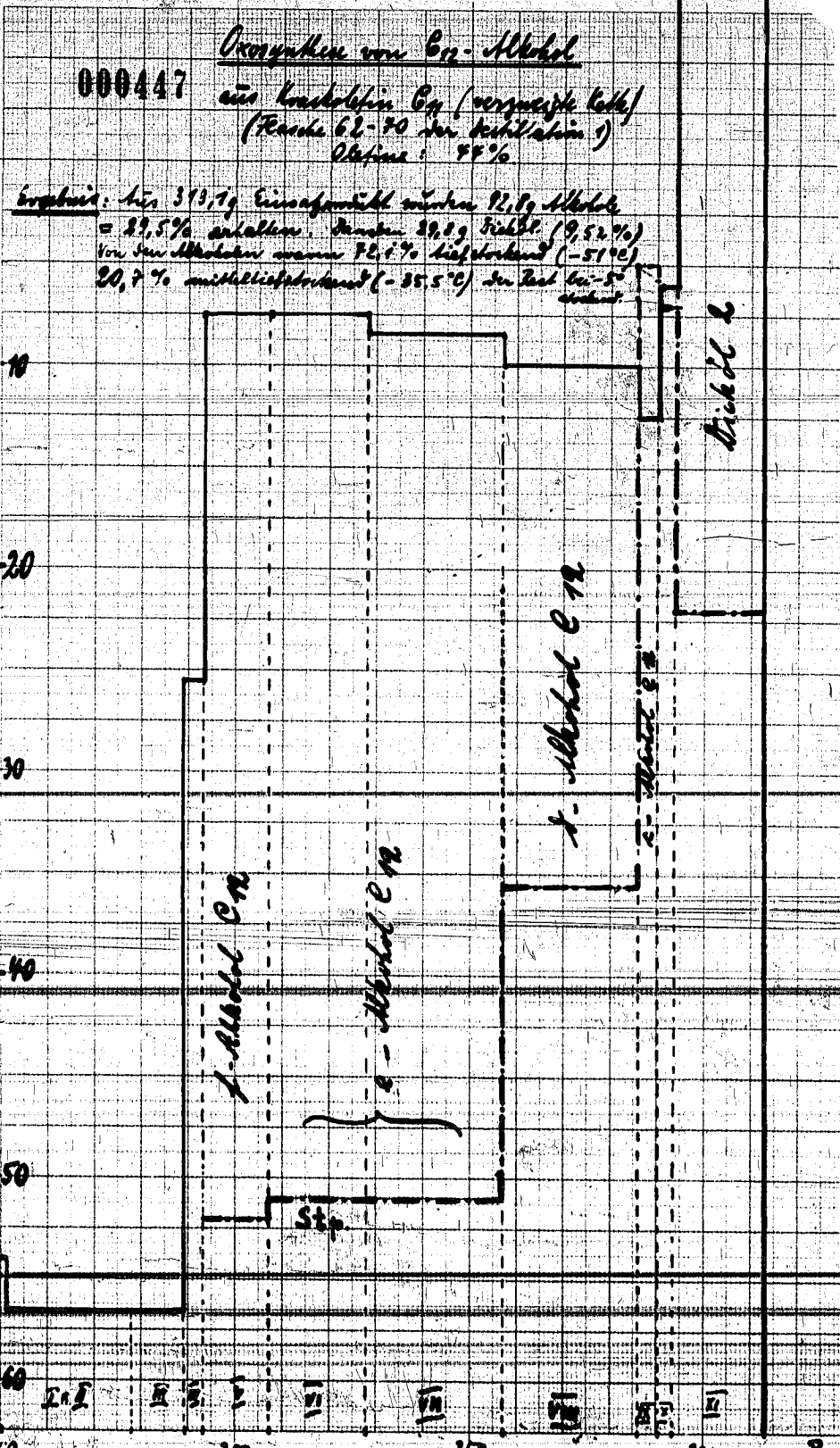
Dichten

000446

2er C₁₁-Fraktion



880
870
860
850
840
830
820
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790
780
770
760
750
740
730
720
710
700



Oxygensen von C₁₂-Äthanol

000447

aus kochsüßen C₁₂ (vermeigte Kette)
(Frache 62-70 der Siedekurve)
Alkohole: 99%

Ergebnis: bis 310,7g Einsafrucht wärken 92,8g Alkohol
= 29,5% anhalten. Daraus 29,8g Siedst. (19,52%)
von dem Alkohol waren 92,1% kochsüßend (-51°C)
20,7% mittelsüßend (-35,5°C) im Zeit bei -5°C
abkühlte

Dichtöl

x-Äthanol C₁₂

f-Äthanol C₁₂

e-Äthanol C₁₂

Stp

2. Meth. 5.2

I II III IV V VI VII VIII IX

150 200 250 300 g Prot.

Herstellung von Oxopropitriken

aus geradkettigen und verzweigten C_n Kohlenwasserstoffen

Von der Feindestillation 1 (am Kol.) wurden die Fraktionen 125-135 (gerade KW'ff) und 12-70 (verzweigte KW'ff) im Autoklavem mit Wgas & Normalkontakt der Oxyn. these unterworfen und mit Wff hydriert. (Faust)

Gerade	verzweigt
Olefine: ca 24%	ca 45%
OH Z: 70,5	132
% Alkohol C ₁₁ : 23,5	44,0
D ₂₀ = 0,7647	0,7977
NZ = 0	0
VZ = -	3
RhZ = 1,4	-
EDZ = -	1,3
Distribution / Aufnahmef	-
Einwurf: 326 g	313,1 g
Lösungen: 240 g Neutralöl	189 g Neutralöl
Stolge: 191 S. Bay.	170 °C
- 193: 5,5 Vol%	- 180°: 1,5 Vol%
- 194: 46,0 "	- 183°: 14,0 "
- 199,5: 97,5 "	- 187°: 97,5 "
61 g Alkohole (18,7%)	92,8 g Alkohole (29,5%)
Samm: 32,5 g (55%) verzerrt	Samm: 16,6 g (18,7%)
D ₂₀ = 0,832 / 0,831	D ₂₀ = 0,850
Stp = -3,5 / 0,5	Stp = -52 °C
} b-Methyl	
mit: 27,5 g (45%) gerade	50,2 g (57,0%)
D ₂₀ = 0,835	D ₂₀ = 0,849
Stp = -1,9 / 1,1	Stp = -57
} a-Methyl	
} c-Methyl	
	19,2 g (-20,4%)
	D ₂₀ = 0,845
	Stp = -5,5
	} d-Methyl
	e-Methyl

$F_g (7,6\%)$

$D_{20} = 0,840$
 $Stp: -5^\circ C$ } Alkohol C_{12}

Lsgn

Sicköl

21,6 g (6,64%)
 $D_{20} = 0,8530$
 $Stp = -2,5^\circ C$ } Sicköl 1
 $n_D^{20} = 1,4648$

29,8 g (9,52%)
 $D_{20} = 0,883$
 $Stp = -22^\circ C$ } Sicköl 2
 $n_D^{20} = 1,4600$

Aus beiden Alkohol-Nertralöl-Gemischen wurden durch Alkalischmelze die Natronseifen hergestellt. (Fauch) Die aus dem geraden RWFen hergestellte Rohseife war braun und von mildem Geruch, die aus dem verzweigten Rohbraun mit starkem Petroleumgeruch. Die Analyse des abgespaltenen Wasserstoffs zeigte bei dem verzweigten einen Gehalt von 17% Methan. Die abdestillierten Nertralöle hatten folgende Erstlage:

- 191°C	- 190°C
- 193° : 5,5	- 180° C. 1,5 Vol%
- 194° : 46,0	- 183° C 14,0 "
- 194,5 : 92,5	- 187° C 92,5 "

Zusammenstellung der Alkohole C_{12}

	D_{20}	Stp	n_D^{20}
a - C_{12}	0,838	+18	1,4432
b - C_{12}	0,835	-3,5	1,4430
c - C_{12}	0,840	-5	1,4455
d - C_{12}	0,845	-35,5	1,4455
e - C_{12}	0,849	-51	1,4461
f - C_{12}	0,850	-52	1,4471

1/11 41 Methan

000450

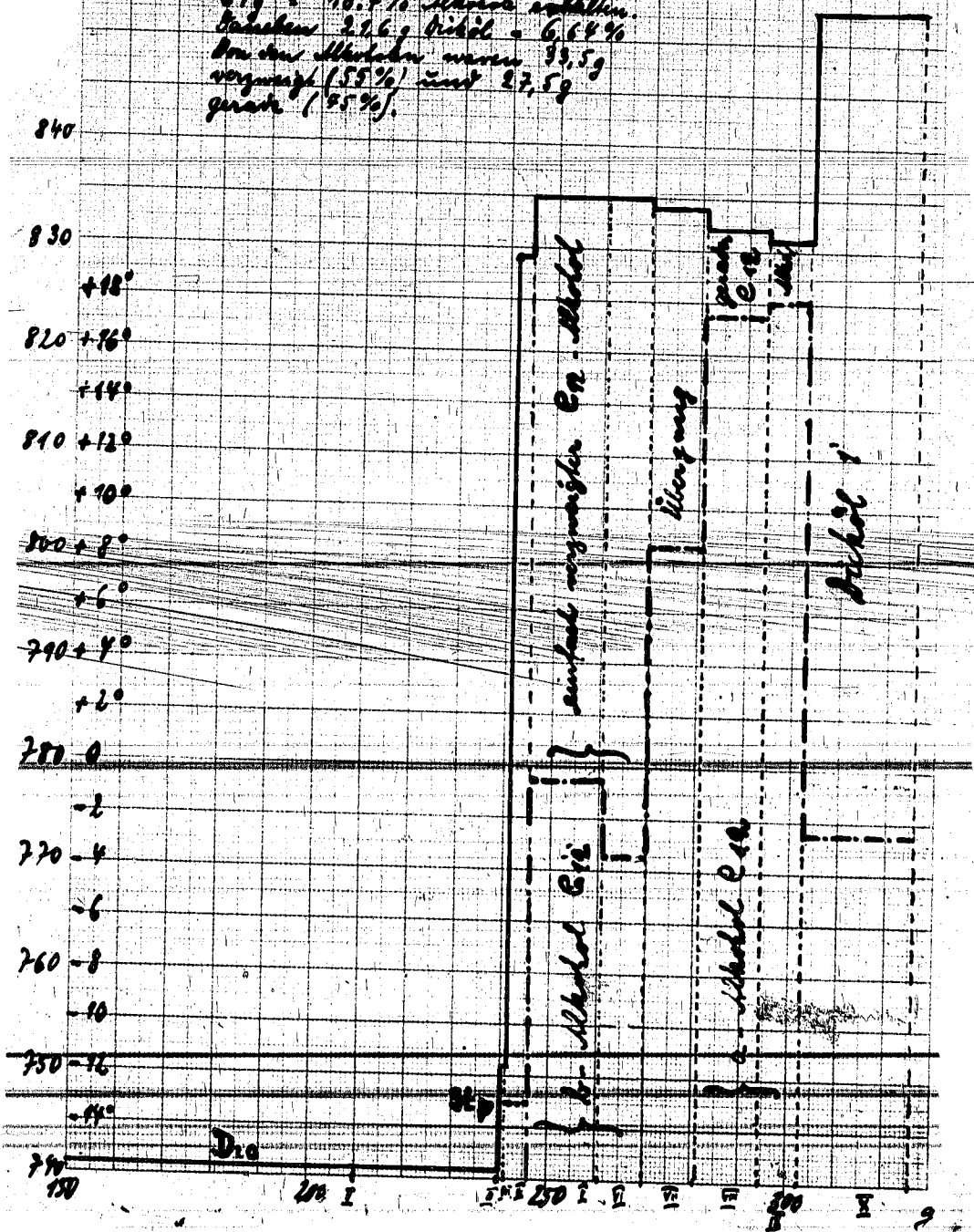
Oxydation von C₁₂-Alkohol

aus Knocholefin C₁₂ (gerade Kette)

(Fläche 125-135 der Destillation 1)

(Reinheit ca. 20%)

Ergebnis: Aus 326 g Umsatzprodukt wurden
 61 g = 18,7% Alkohol nachfolgend
 erhalten 276 g Rückst. = 6,54%
 Von dem Alkohol waren 33,5 g
 vergoren (15%) und 27,5 g
 gerast (55%).

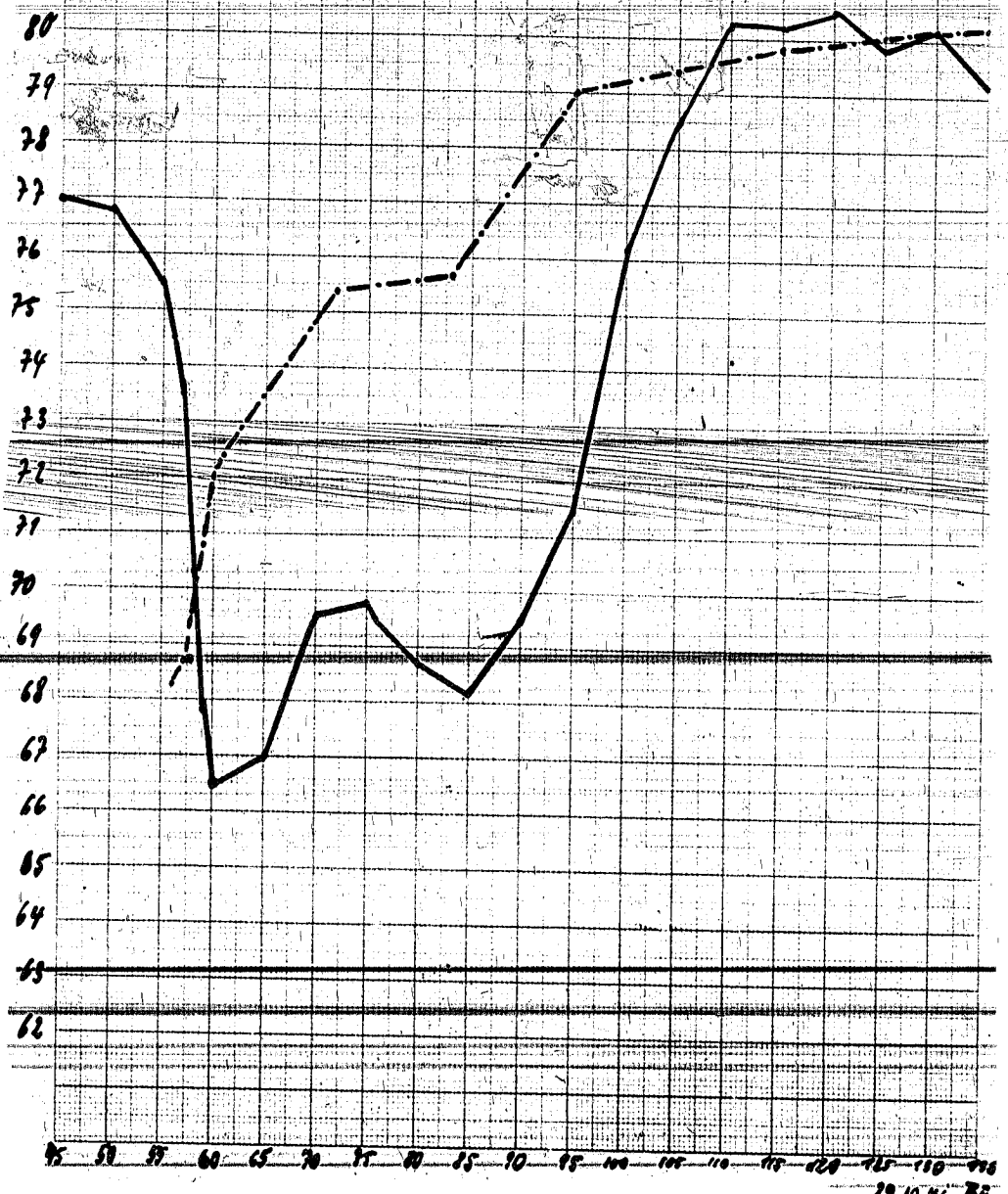


000451

Anclinpunkte

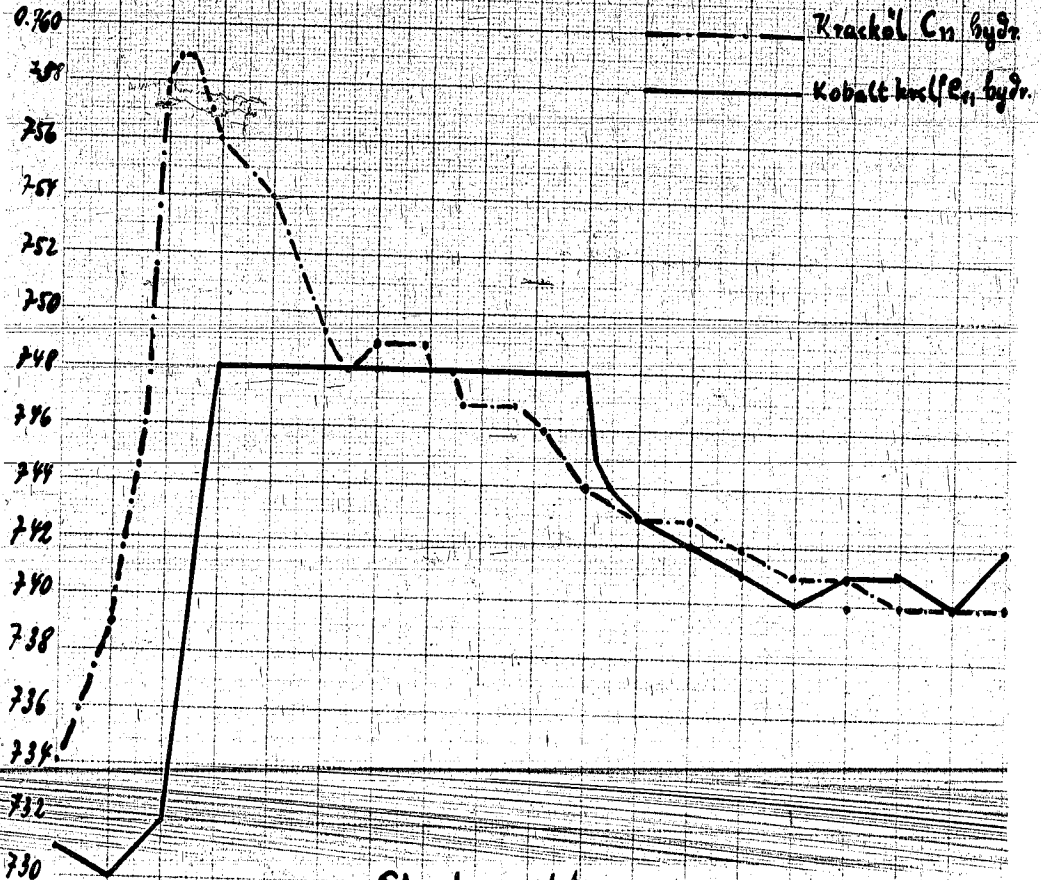
Kraaköl C₁₁ hydr

Köbnlk knlf C₁₁ hydr

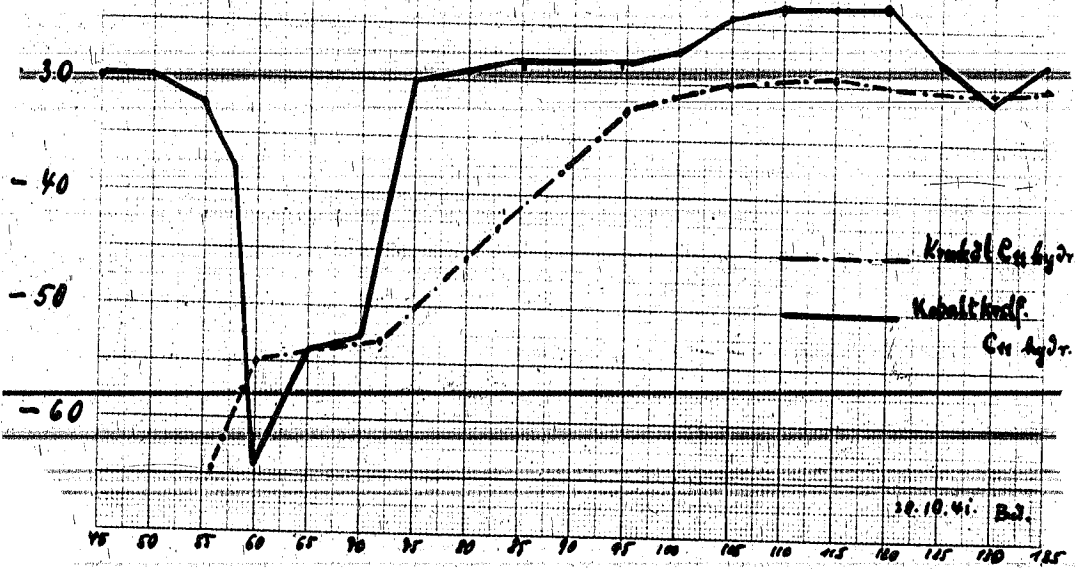


Dichten.

000452



Stockpunkte



20.10.41. B.2.

Sledenkennziffern

000453

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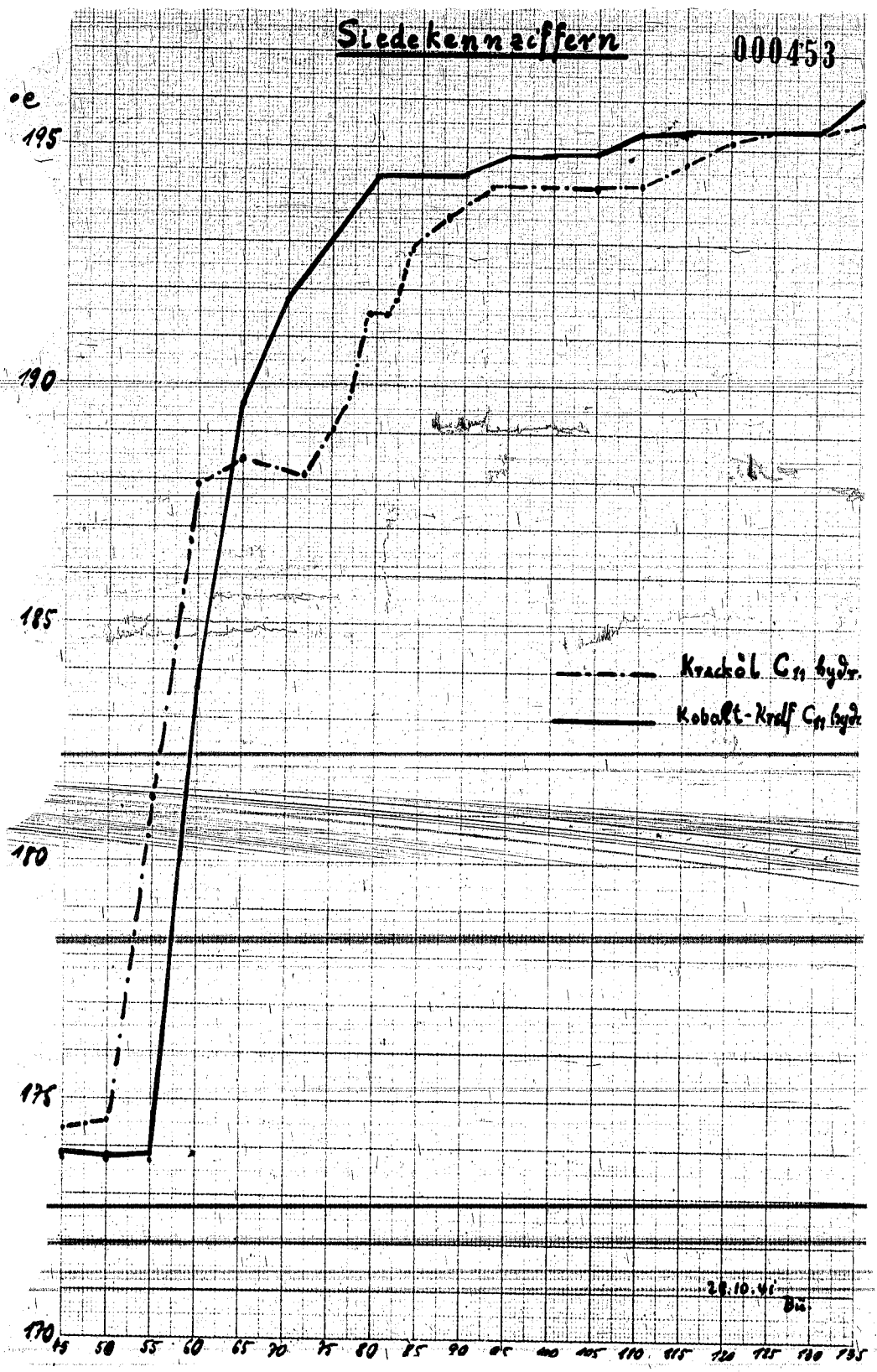
175

--- Kracköl C₁₁ bydr.
— Kobalt-Kraft C₁₁ bydr.

170 15 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135

28.10.46

Die



Distillation 3

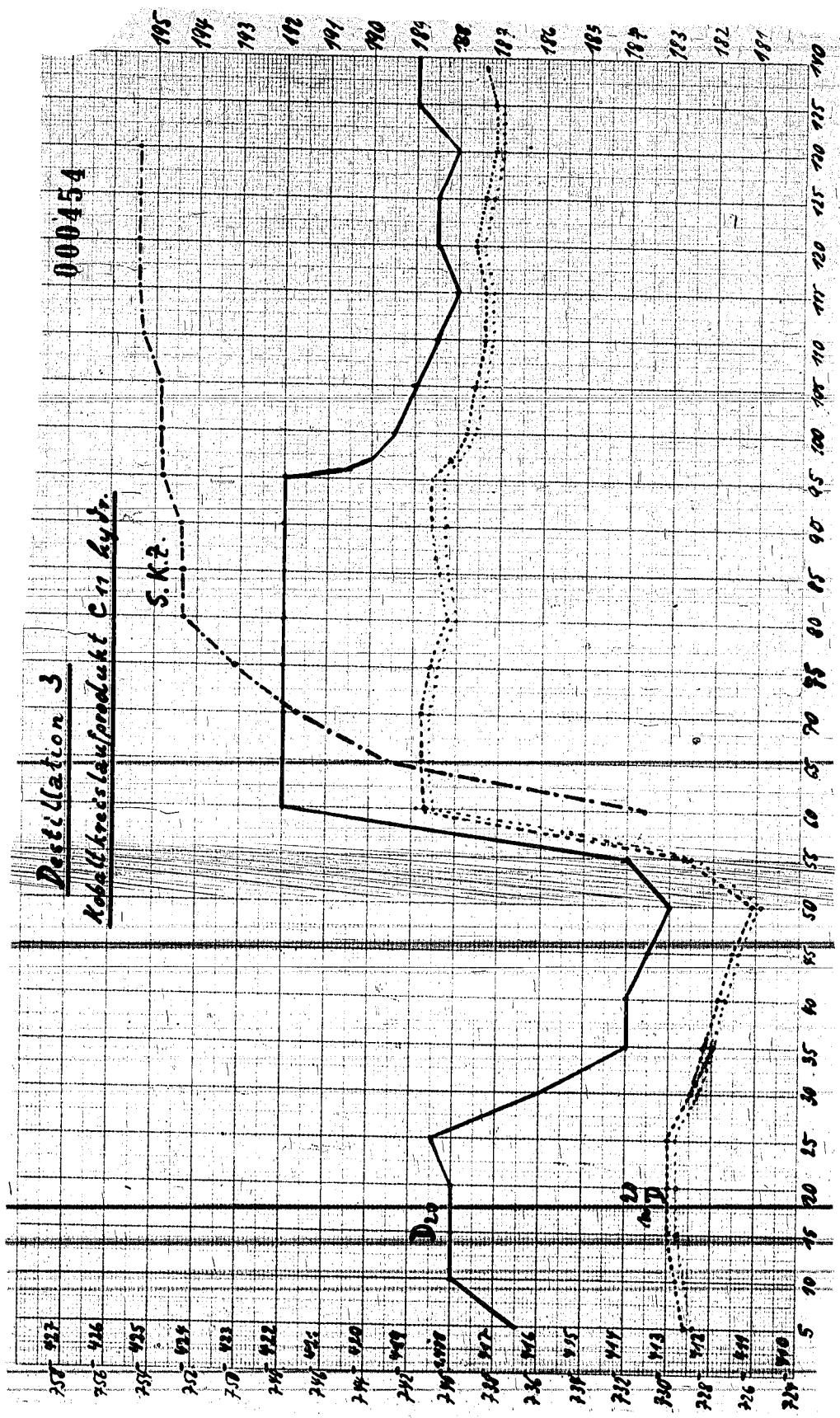
Kobaltkreislaufprodukt C11 by Dr.

000454

S.K.Z.

D.20

D.22



Distillation 3

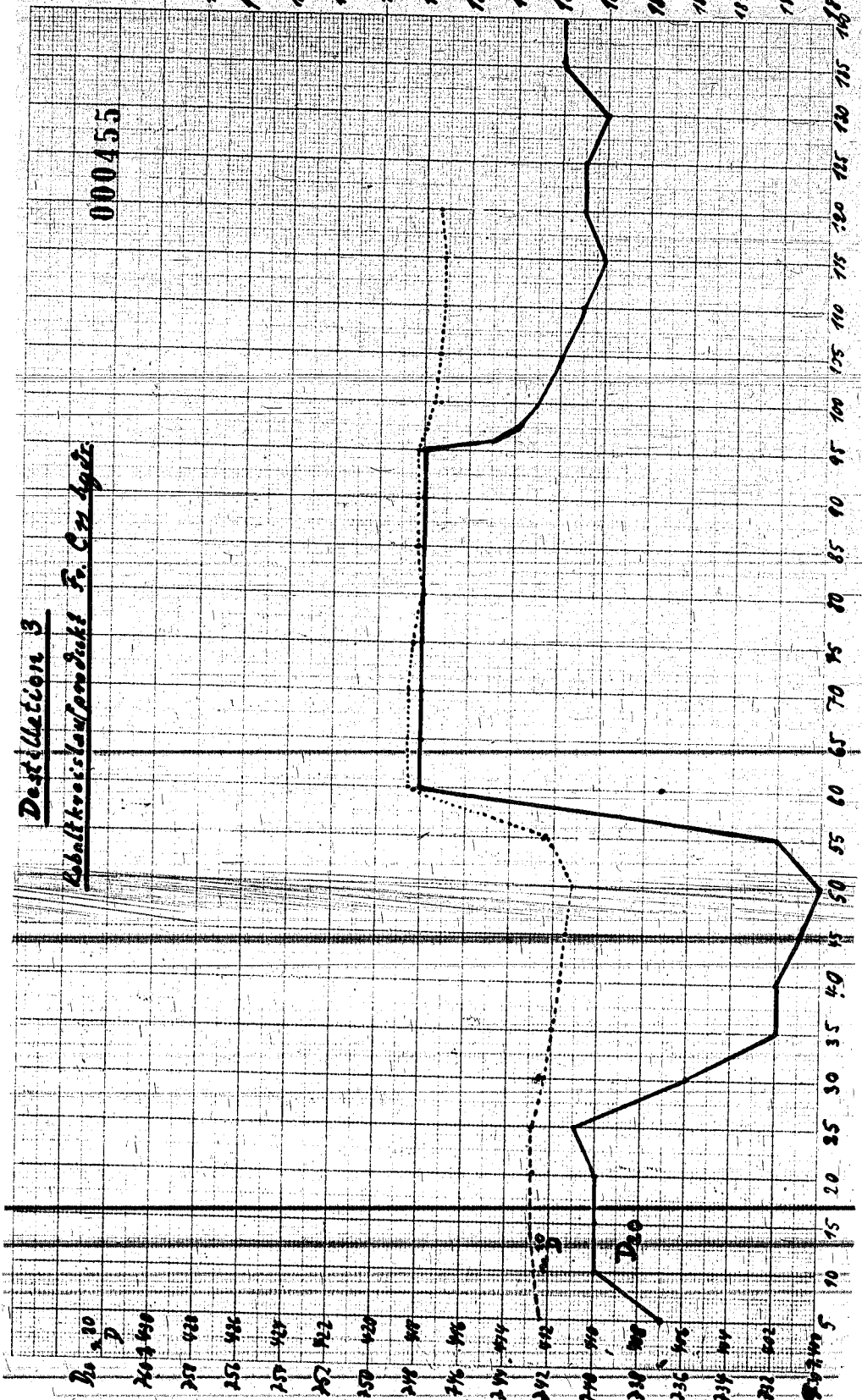
Schaltkreislaufprodukt Fr. C₂₁ diger

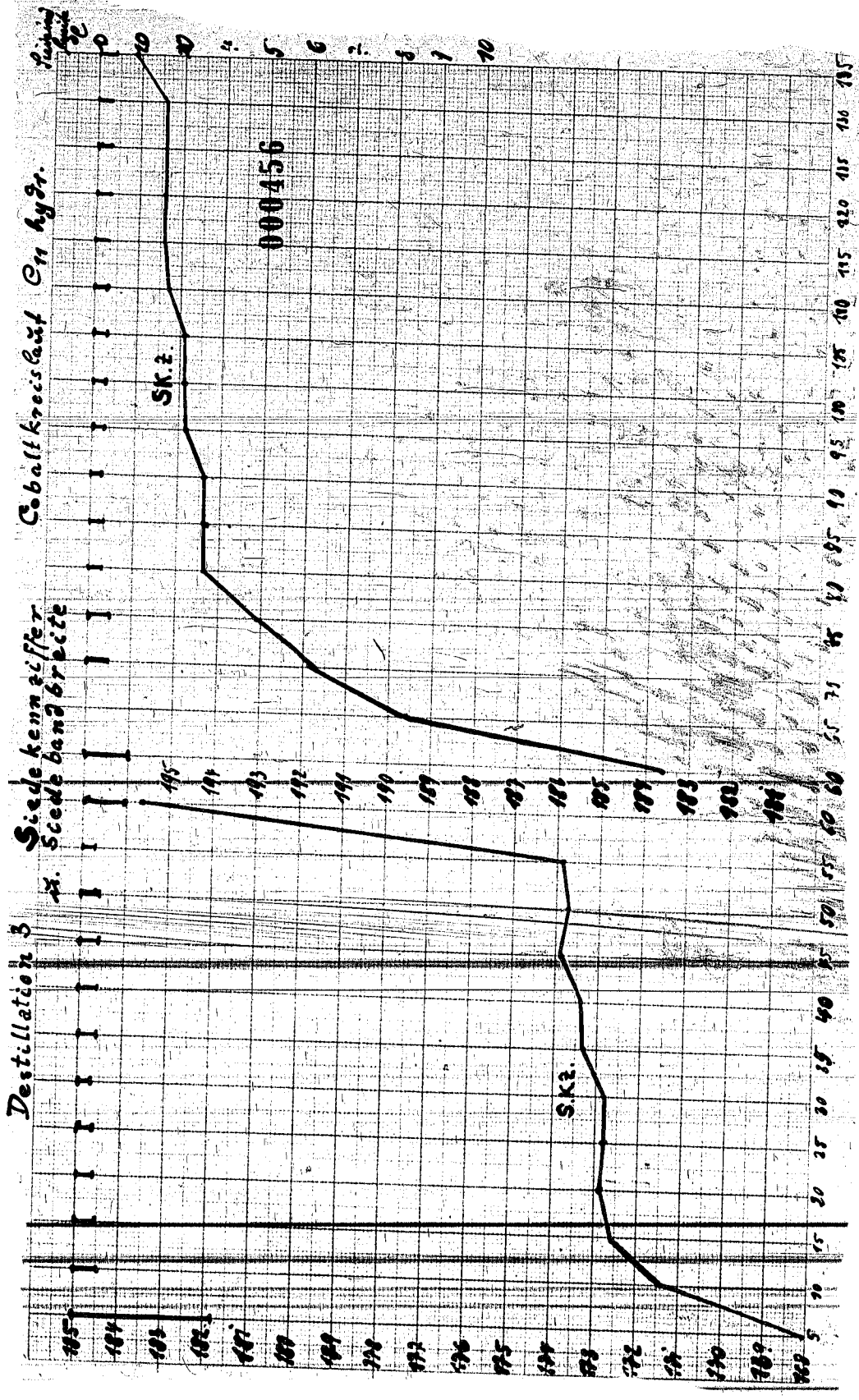
000455

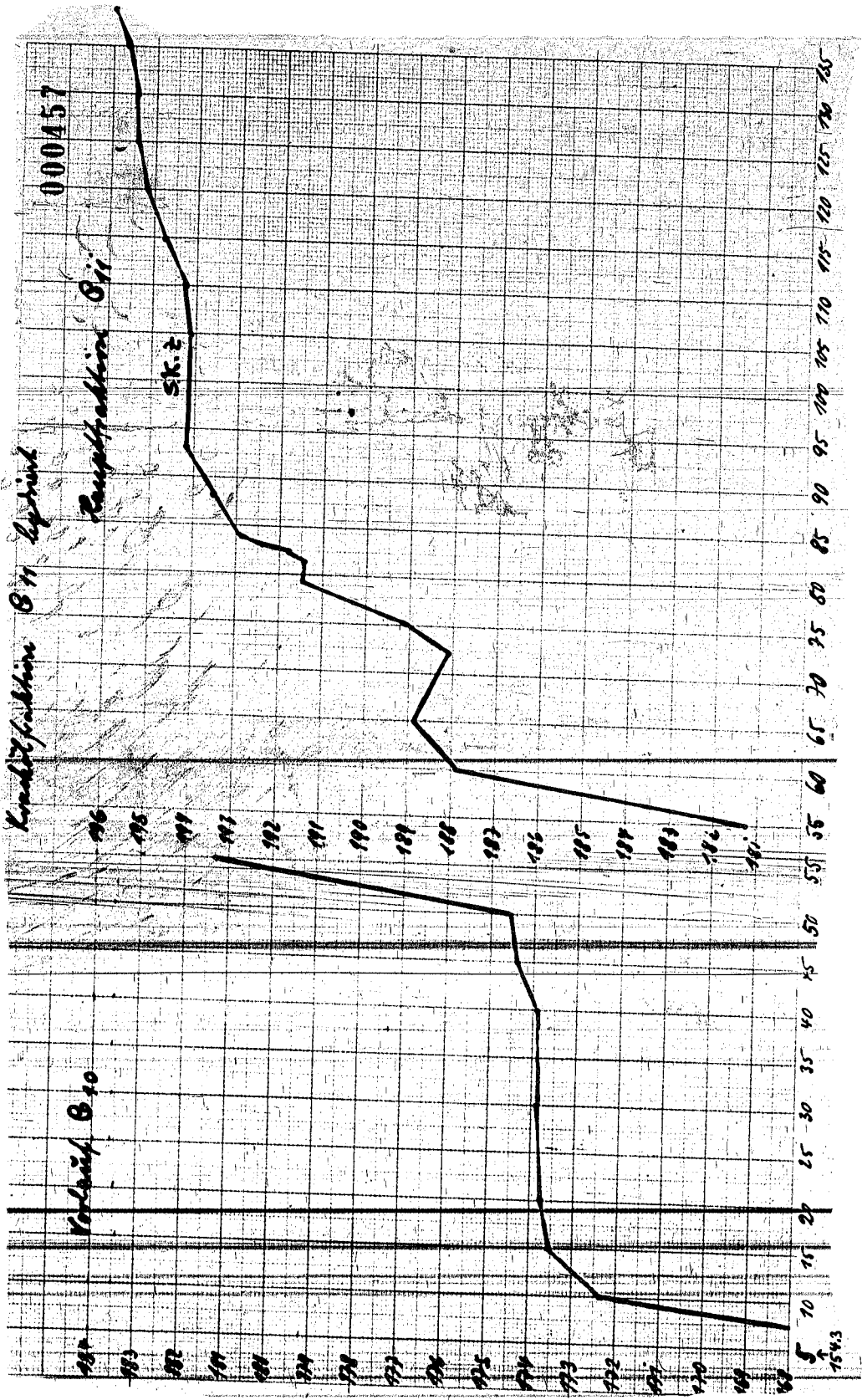
SKZ
196
195
194
193
192
191
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189
188
187
186
185
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183
182
181

No. 10
D
207 488
257 428
252 486
257 428
262 522
250 420
249 408
276 496
289 494
292 492
298 490
298 490
295 498
294 494
292 492
292 492

10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140







000457

154.3

Distillation 3.

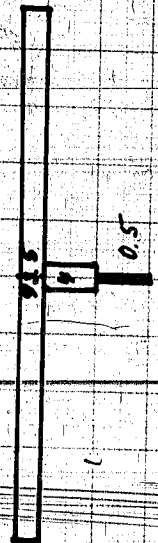
000458



FR 135

Sub: 198

S.K. 2.



FR 130

Sub: 196

S.K. 2. 195.3



FR 125

Sub: 196

S.K. 2. 195.4

196
196
194
193
192
191

Distillation 3.

No. 0.241
29 = 1.4172

No. 0.240
29 = 1.4172

No. 0.241
29 = 1.4172

196
195
194
193
192
191
190



000159

R. 110
Feb. 1953
SK 2. 1953

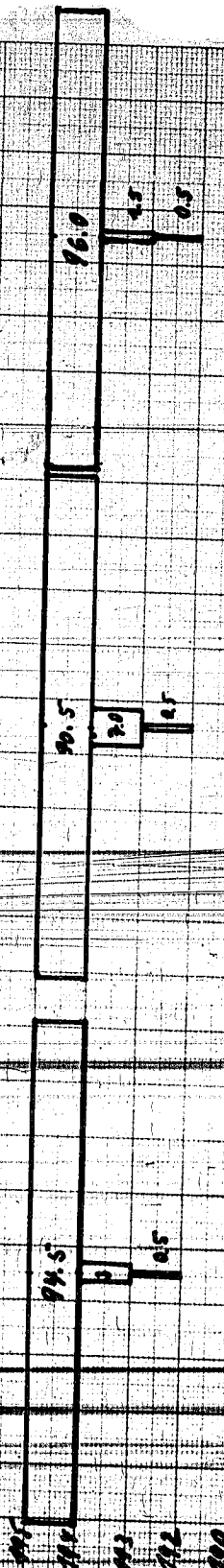
R. 115
Feb. 196
SK 2. 1954

R. 120
Feb. 195
SK 2. 1954

27.10.41-3a

Distillation 3

000460



$P_{96} = 0.2742$
 $\alpha_{96} = 1.4174$

$P_{90.5} = 0.2743$
 $\alpha_{90.5} = 1.4176$

$P_{94.5} = 0.2745$
 $\alpha_{94.5} = 1.4183$

FE 105
 Sch: 195
 S.K.Z.: 1949

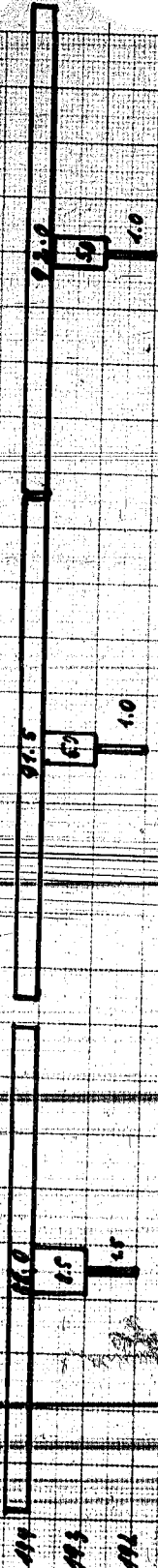
FE 100
 Sch: 194
 S.K.Z.: 1948

FE 95
 Sch: 195
 S.K.Z.: 1948

25.10.41 Bm

Perforation 3.

000461



$P_a = 0.248$
 $D = 1.4180$

$P_a = 0.248$
 $D = 1.4182$

$P_a = 0.248$
 $D = 1.4183$

72.88

Sub: 193

S.K.2. 1944

72.85

Sub: 194

S.K.2. 1944

72.90

Sub: 194

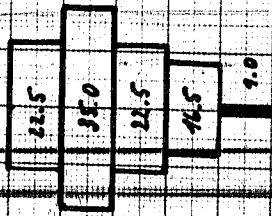
S.K.2. 1944

28.10.44

114
 113
 112
 111
 110
 109
 108
 107
 106

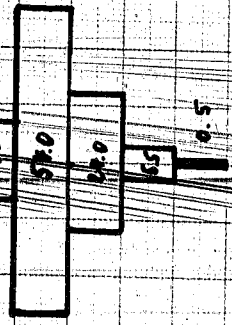
999
993
992
991
990
989
988
987
986

$D_{50} = 0.248$
 $D_{20} = 1.4186$



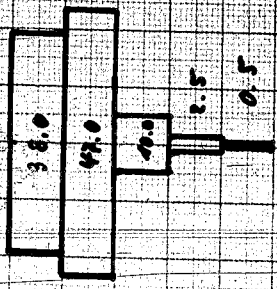
98.65
Sub: 189
SK: 189.6

$D_{50} = 0.786$
 $D_{20} = 1.4186$



98.70
Sub: 191
SK: 191.7

$D_{50} = 0.248$
 $D_{20} = 0.4186$



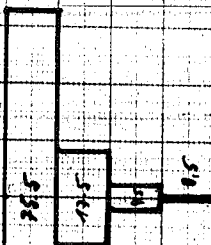
000462

98.75
Sub: 193
SK: 193.1

25.00 Vi. Bar.

101
102
103
104
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106
107
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112
113
114
115
116
117
118
119
120

$D_{10} = 0.750$
 $a_p = 1.4109$

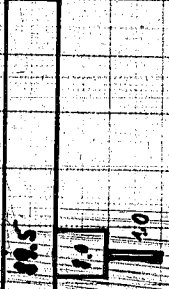


$D_{10} = 0.750$
 $a_p = 1.4109$

$\Sigma f = 50$
 Sdr: 174
 SK2: 173.7

Distribution 3

$D_{10} = 1.732$
 $a_p = 1.9125$



$D_{10} = 1.732$
 $a_p = 1.9125$

$\Sigma f = 55$
 Sdr: 174
 SK2: 173.9

000463

$D_{10} = 0.748$
 $a_p = 1.4185$

$\Sigma f = 60$
 Sdr: 174
 SK2: 181.6

23.10.11 Ba.

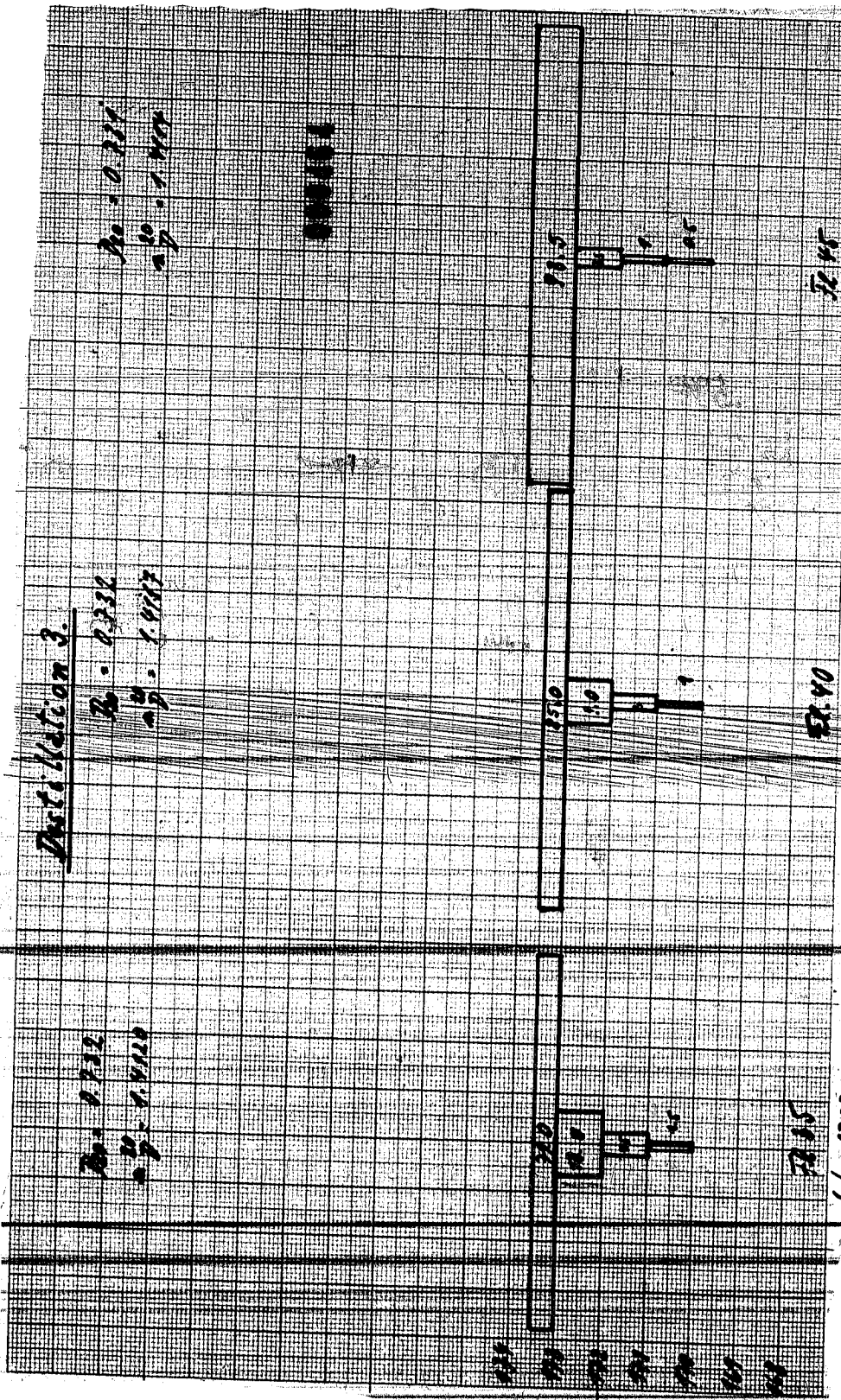
Distillation 3.

No. 1732
Sp. 1.4120

No. 1732
Sp. 1.4112

No. 1731
Sp. 1.4104

1731



1735

Sub: 173°
SK 2: 173.3

1734

Sub: 174°
SK 2: 173.4

1733

Sub: 174°
SK 2: 173.9

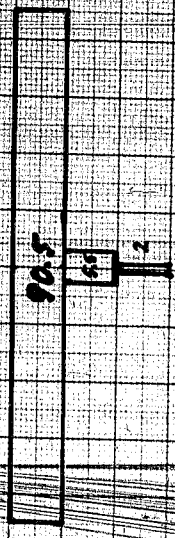
22.11.25

Distillation 3

000165

$R_p = 0.2216$
 $\alpha_p = 1.923$

$R_p = 0.2741$
 $\alpha_p = 1.9120$



7230

Sec: 173

S.K.2: 172.9

7235

Sec: 173

S.K.2: 172.8

175
174
173
172
171
170
169
168

1700000

Postulation 3

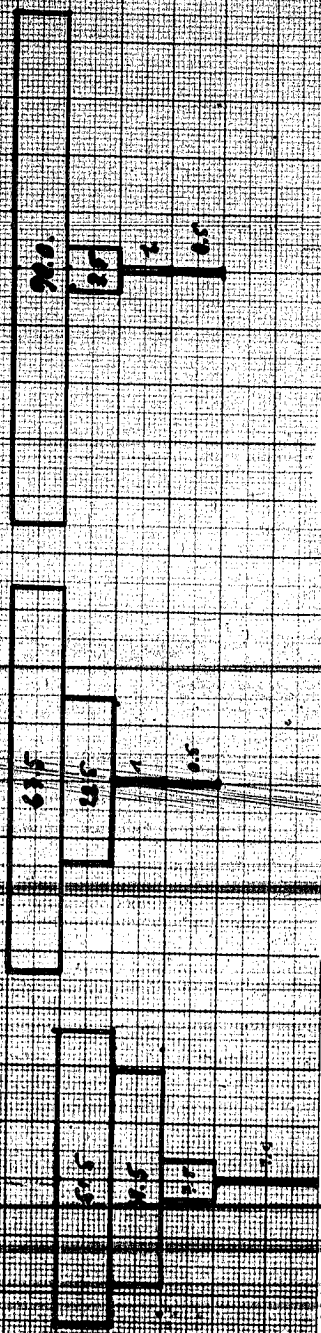
Pr: 0770
S.K.: 17125

Pr: 0770
S.K.: 17124

Pr: 0770
S.K.: 17126

000458

22.04.72



Pr: 0770
S.K.: 17124

Pr: 0770
S.K.: 17126

Pr: 0770
S.K.: 17128

0770
0770
0770
0770
0770
0770
0770

Distillation 3

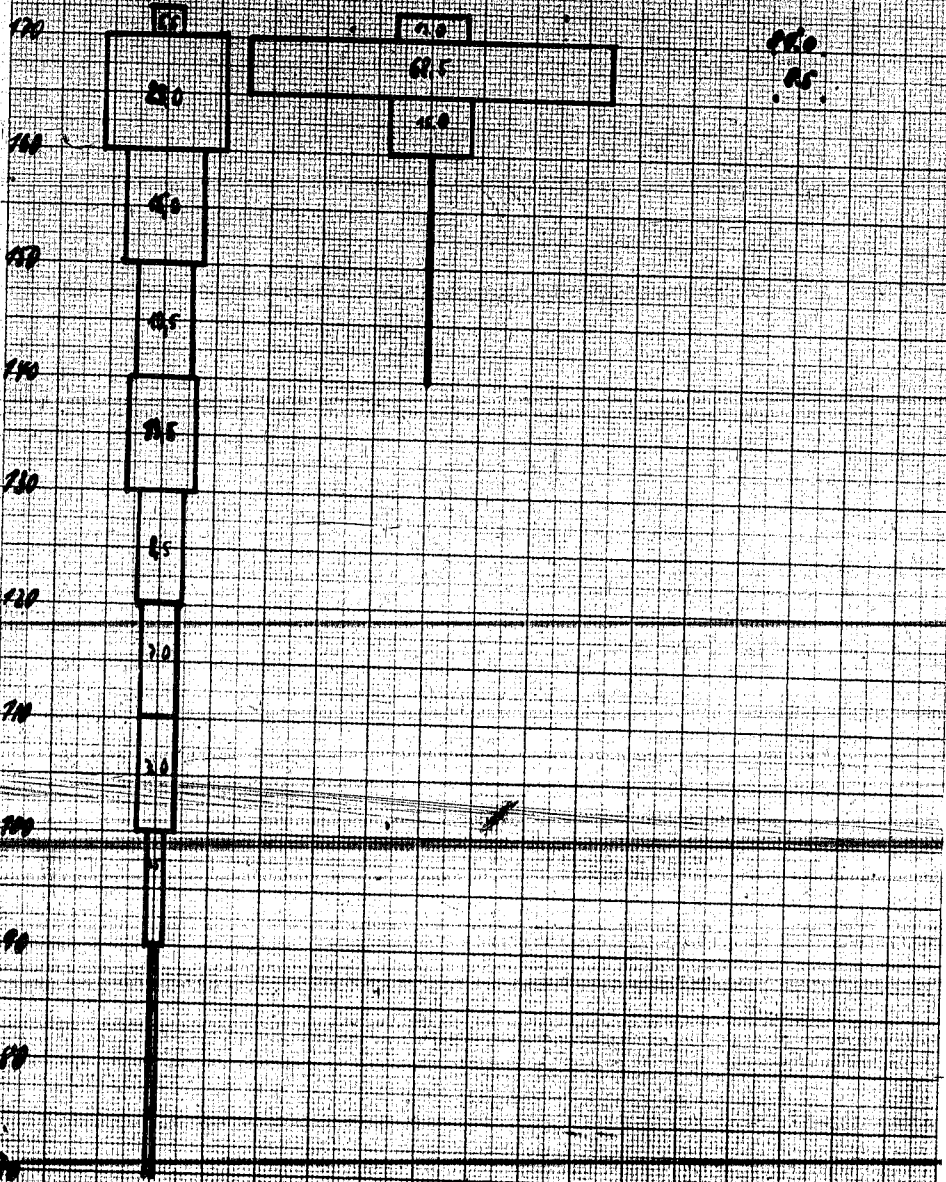
000067

Tubing C-11, Cellul. Kautschuk, per. Lythium

$T_{100} = 0.710$
 $\frac{d_{100}}{d_0} = 1.9979$

$T_{100} = 0.737$
 $\frac{d_{100}}{d_0} = 1.9724$

$T_{100} = 0.777$
 $\frac{d_{100}}{d_0} = 1.9126$



R_1
 66.115
 SKZ 100.3

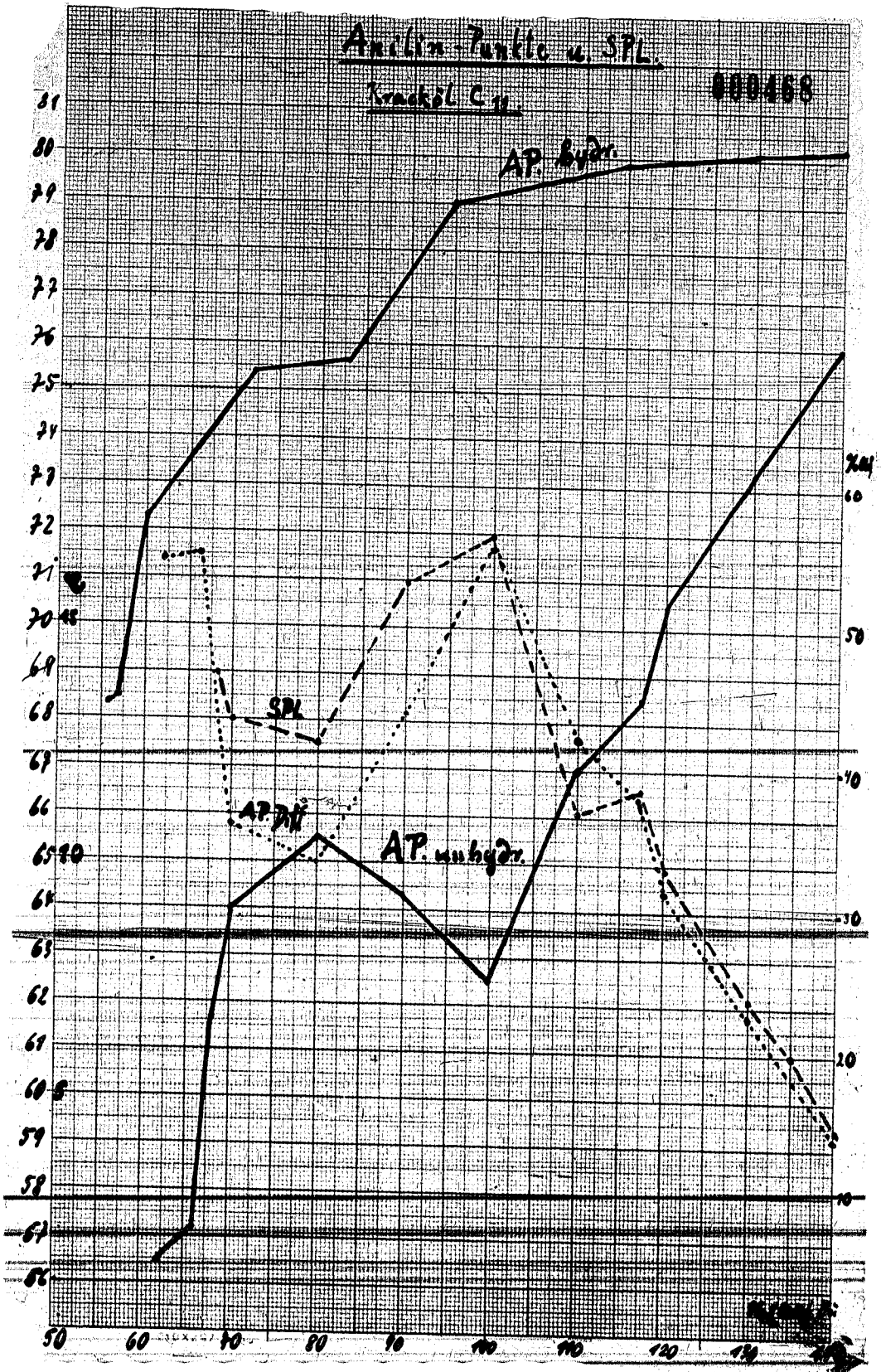
R_2
 66.115
 SKZ 100.1

R_3
 66.115
 SKZ 100.2

Anilin-Punkte u. SPL

Kracköl C₁₁

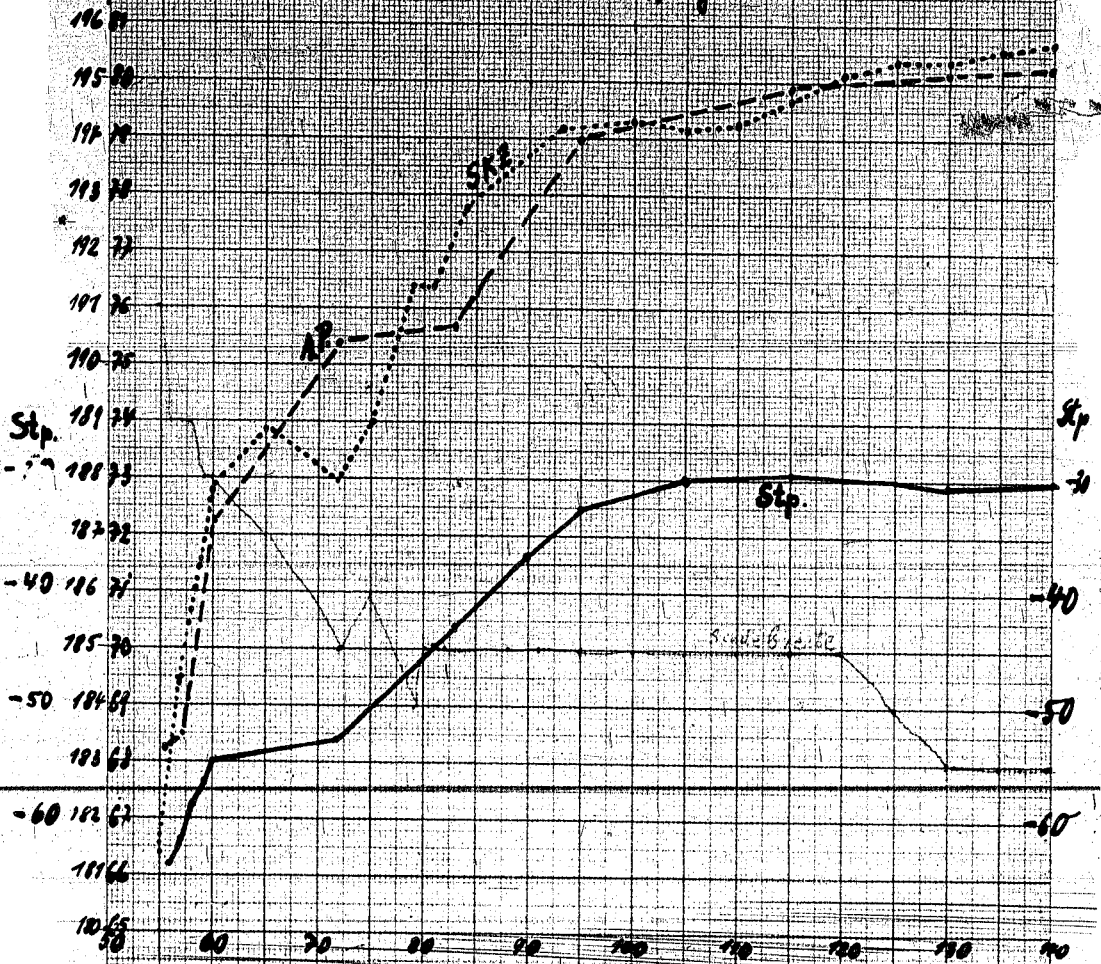
000488



Distillation 2
Kerosene C₁₄ Hydrot

000469

SKZAP



Beobachtung 2
Kanal 50 km/h

Einheit: 0,01
Skala: 0,5h

000470

SK2

AP

SPL
W.%

11 191
10 190
9 189
8 188
7 187
6 186
5 185
4 184
3 183
2 182
1 181

80
79
78
77
76
75
74
73
72
71
70
69
68
67
66

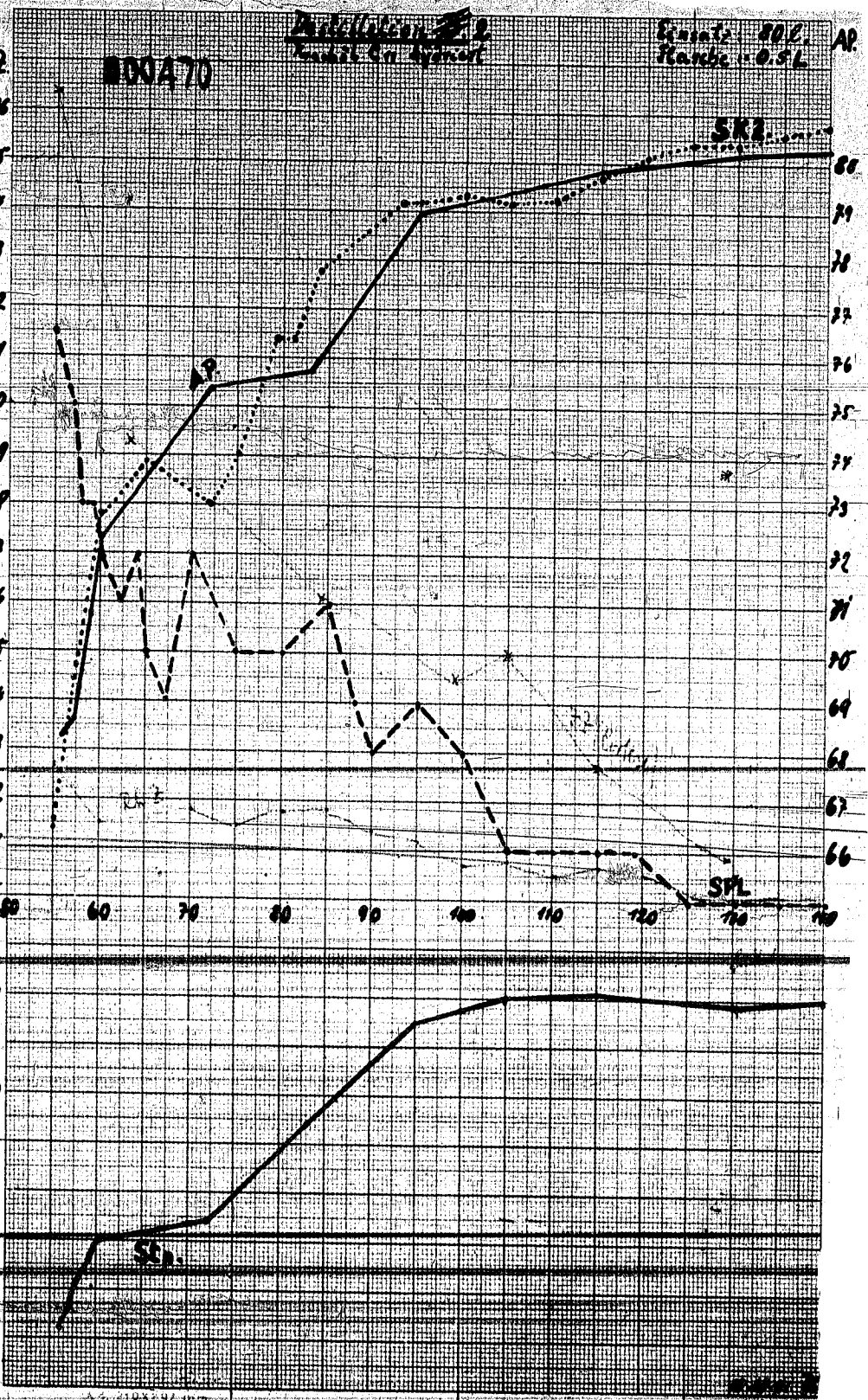
118
Skala: 80

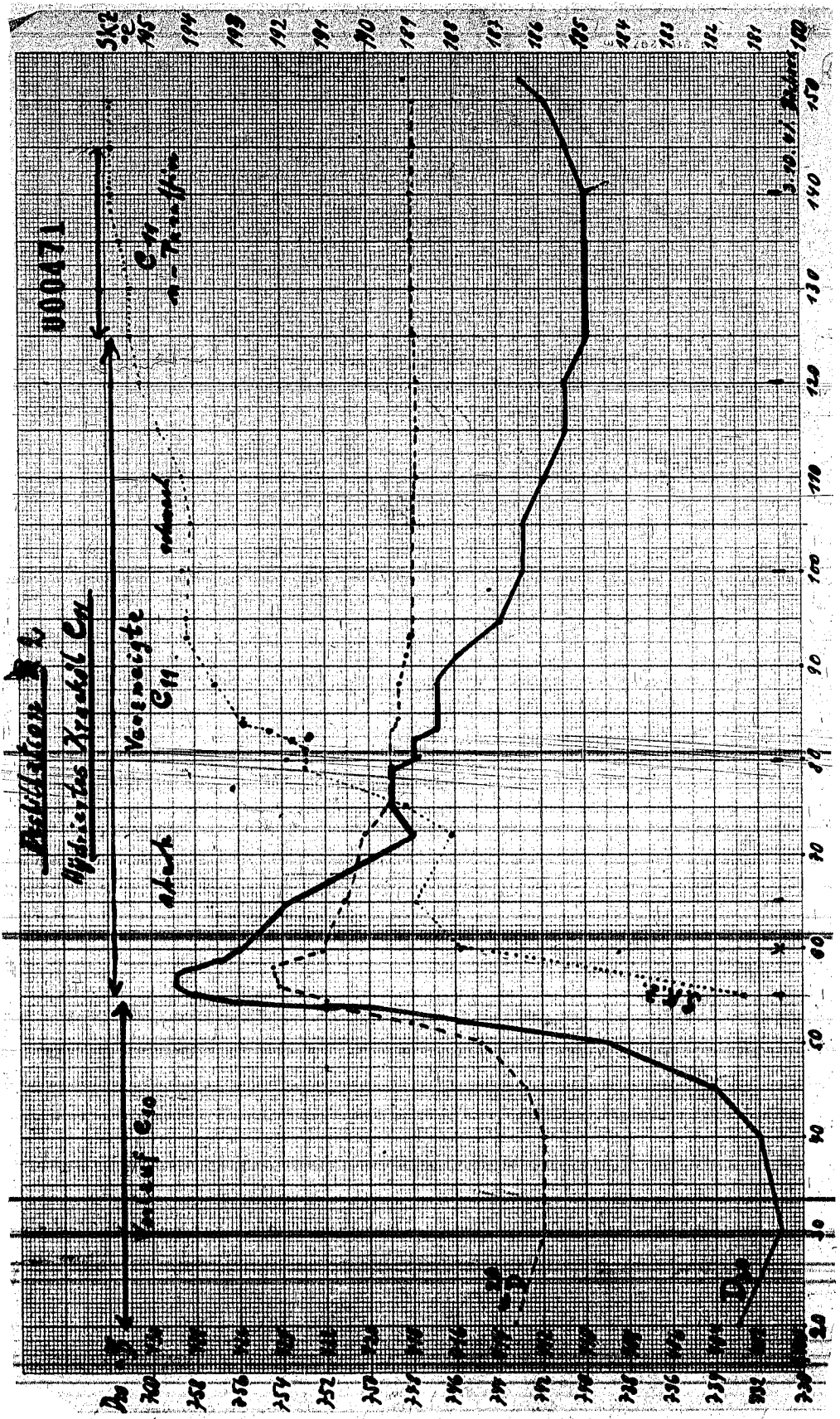
SPL

°C

-30
-40
-50
-60

SK1





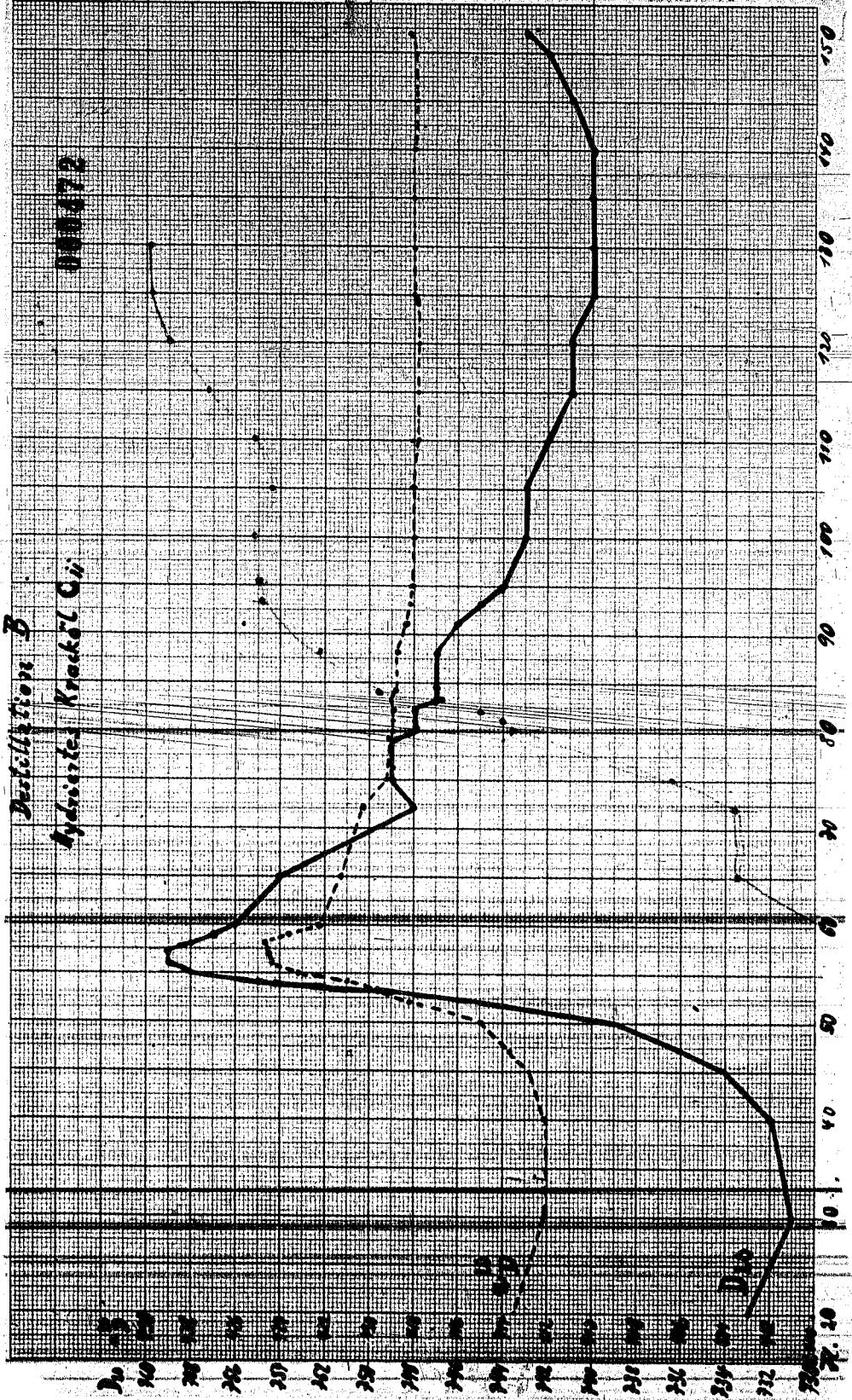
SK2
 195
 194
 193
 192
 191
 190
 189
 188
 187
 186
 185
 184
 183
 182
 181

200
 190
 180
 170
 160
 150
 140
 130
 120
 110
 100
 90
 80
 70
 60
 50
 40
 30
 20

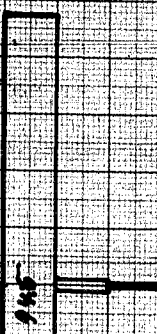
Destillation B

Hydrostes Kracköl Cii

000472



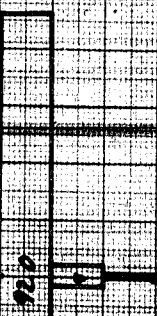
010073



$D_0 = 0.202$
 $D_1 = 1.1110$

7190

1950



$D_0 = 0.270$
 $D_1 = 1.1110$

7195

1950

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20

000474

5.25
5.25

Bo - 0.250
0.9 - 1.100

81.130
195

5.25
5.25

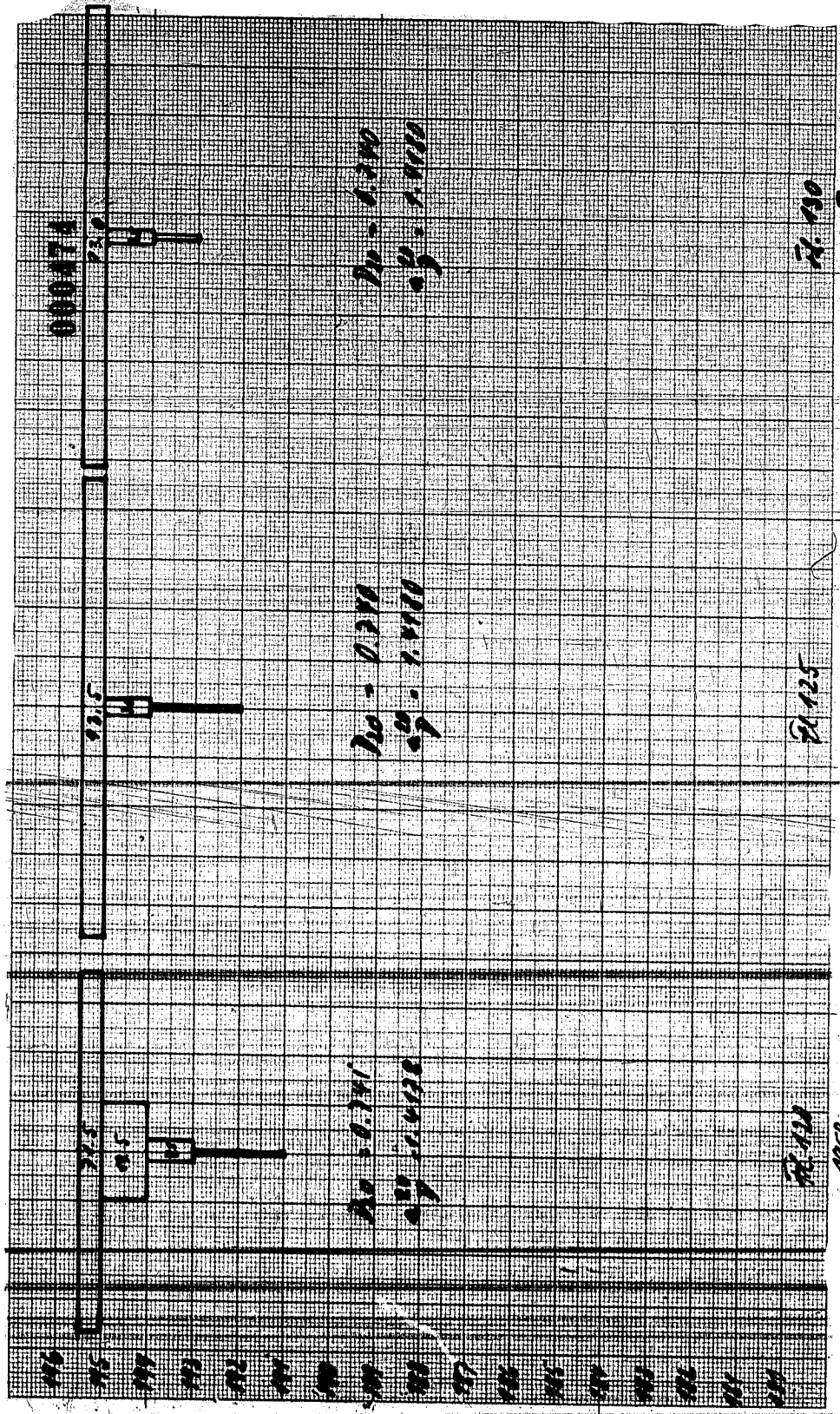
Bo - 0.250
0.9 - 1.100

81.125
195

5.25
5.25

Bo - 0.250
0.9 - 1.100

81.124
195



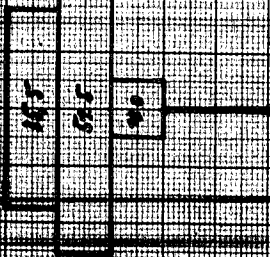
110
105
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5

20. 0.2.52
29. 1.4.58

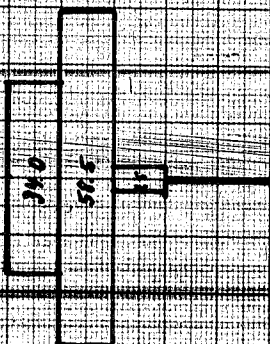
20. 0.2.52
29. 1.4.58

20. 0.2.52
29. 1.4.58

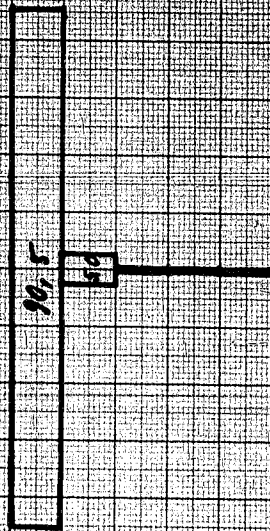
000475



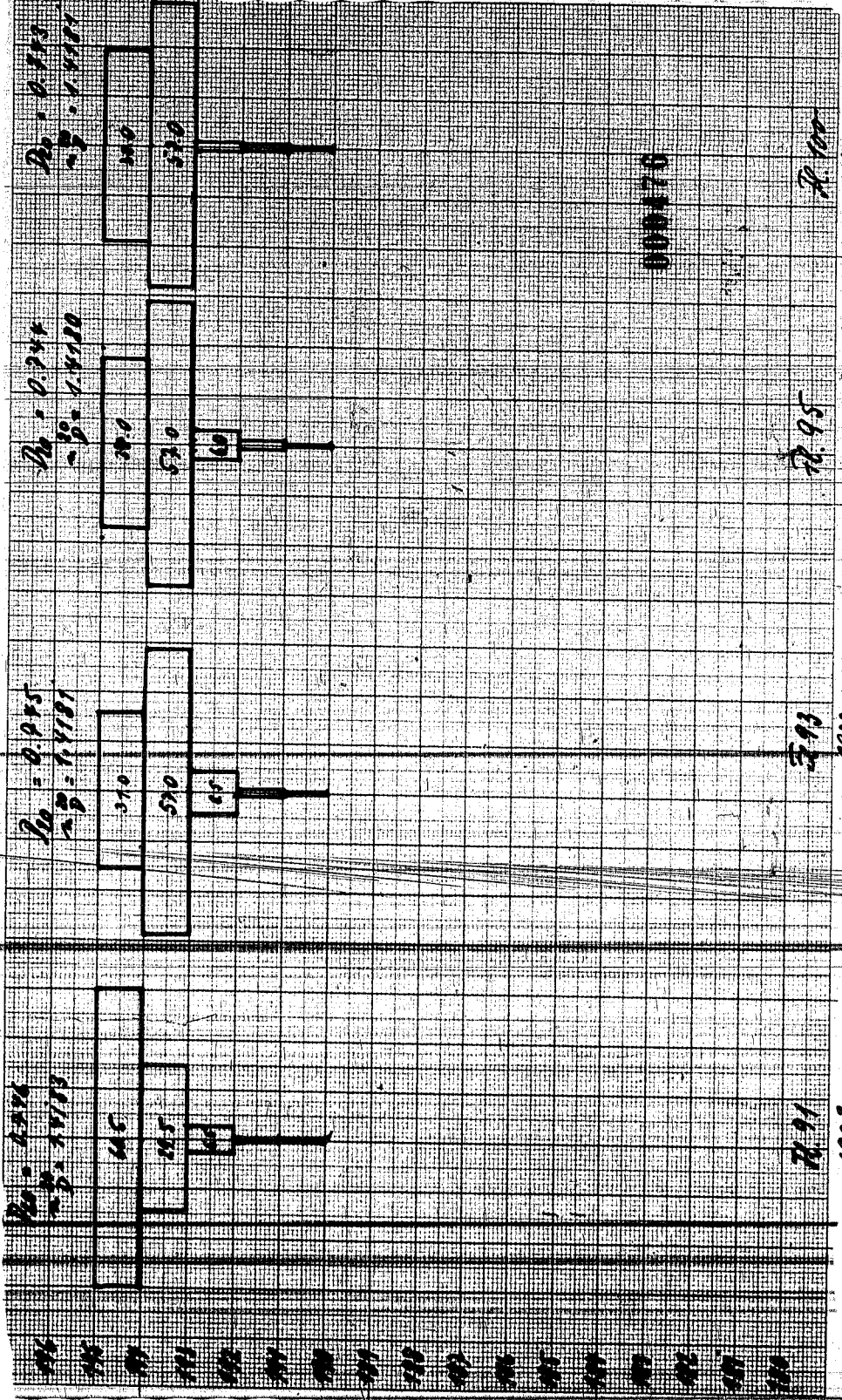
1940
R. 105



1940
R. 110



1940
R. 115



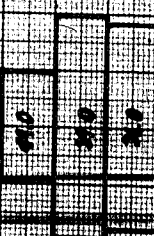
R_{100}
 191°

R_{95}
 194°

R_{93}
 193°

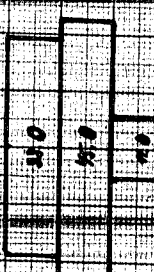
R_{91}
 193°

$D_0 = 0.738$
 $D_1 = 1.476$



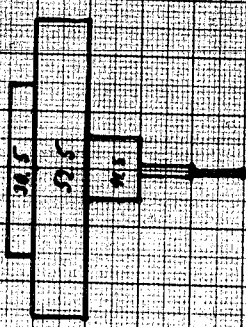
7.01
1910

$D_0 = 1.274$
 $D_1 = 2.548$



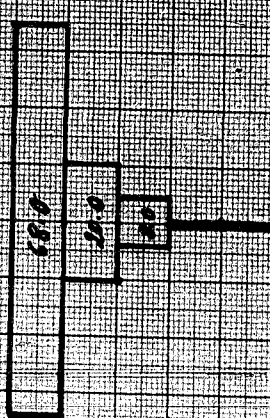
7.02
1910

$D_0 = 0.282$
 $D_1 = 0.564$



7.03
1920

$D_0 = 0.712$
 $D_1 = 1.424$

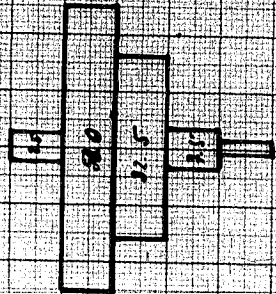


000477

7.04
1920

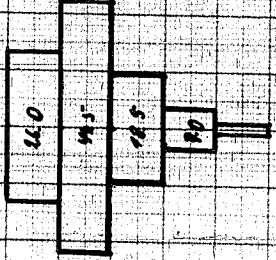
000478

$R_0 = 0.748$
 $\frac{R_0}{P} = 1.4189$



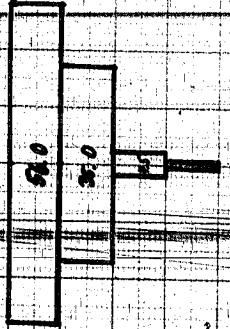
76.81 189°

$R_0 = 0.748$
 $\frac{R_0}{P} = 1.4189$



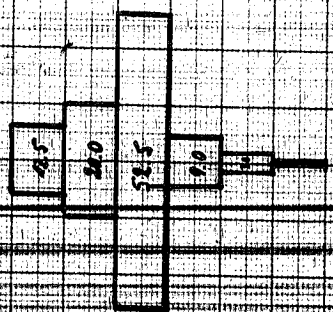
78.25 188°

$R_0 = 0.749$
 $\frac{R_0}{P} = 1.4190$



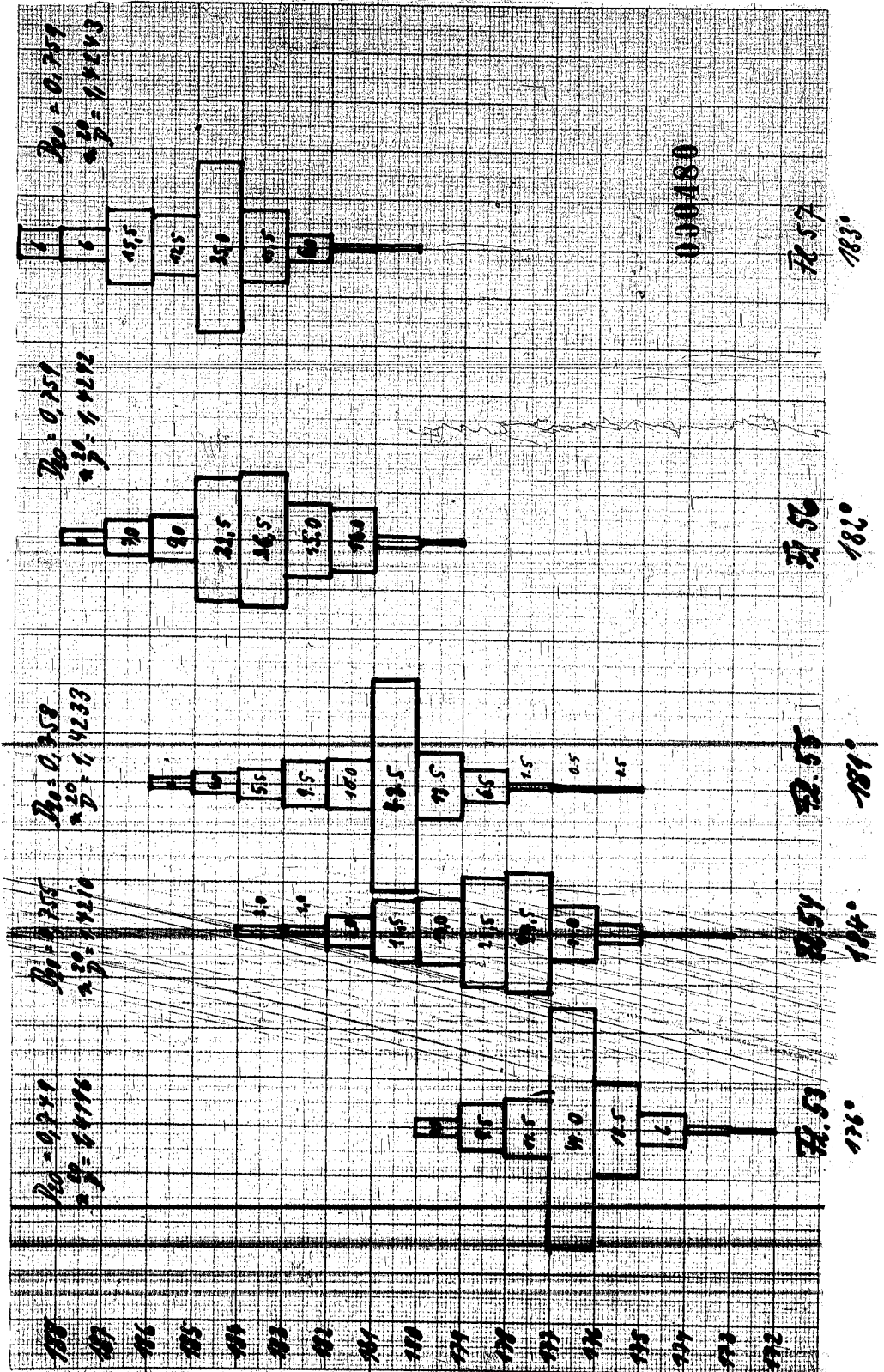
78.49 188°

$R_0 = 0.749$
 $\frac{R_0}{P} = 1.4192$



78.75 188°

195
194
193
192
191
190
189
188
187
186
185
184
183
182



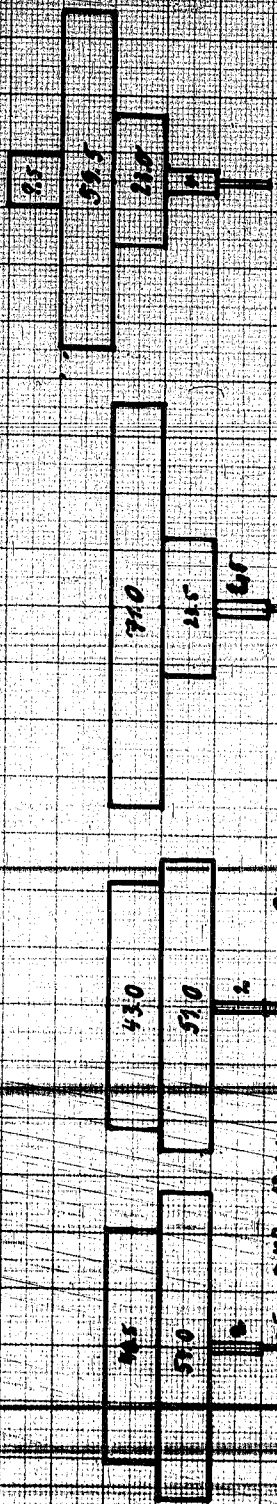
$D_{20} = 0.734$
 $n_p = 1.1120$

$D_{20} = 0.736$
 $n_p = 1.1137$

$D_{20} = 0.739$
 $n_p = 1.1150$

$D_{20} = 0.745$
 $n_p = 1.1181$

113
116
117
118
119
120
121
122
123
124
125
126
127



SIR-174.4

SIR-174.4

000481

1730

1747
1750

1750
1750

1760
1760

Distillation B.

Vol% SPL
% Olefin
D₄₀ = 0.931
α_D = 1.4122

Vol% SPL
% Olefin
D₄₀ = 0.932
α_D = 1.4122

174
173
172
171
170
169
168



SK2 = 173.9

SK2 = 173.9

FR. 30
173°

FR. 40
174°

000482

Distillation B.

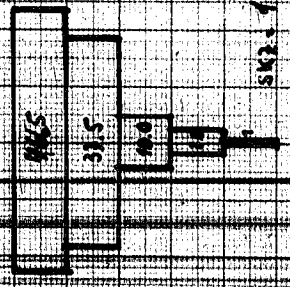
Vol% SPL
% Olefin
D₂₀ = 0.733
n_D²⁰ = 1.4143

Vol% SPL
% Olefin
D₂₀ = 0.736
n_D²⁰ = 1.4168

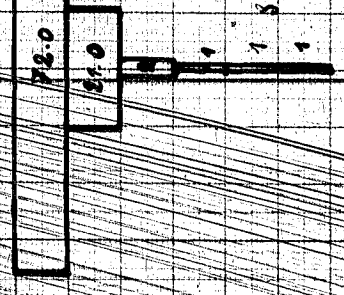
Vol% SPL
% Olefin
D₂₀ = 0.733
n_D²⁰ = 1.4185

100.000

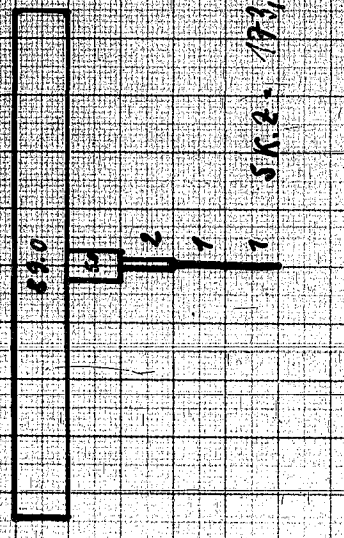
114
113
112
111
110
109
108



57.10
172°



72.15
171°



72.20
173°

Distillation B.

Vol% STL
% Olefin

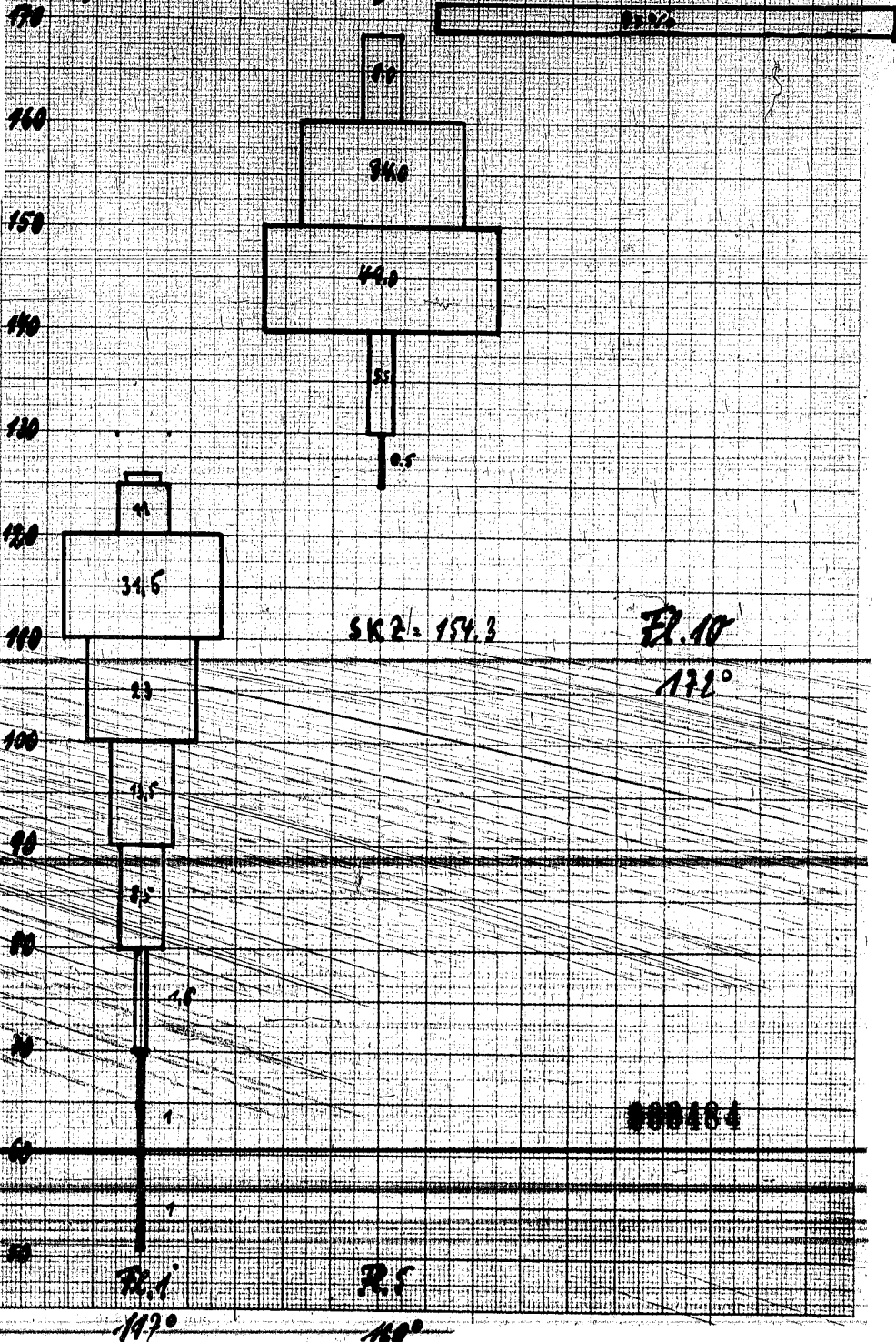
Vol% STL
% Olefin

Vol% STL
% Olefin

$D_{10} = 0.709$
 $\frac{D_{10}}{D_{20}} = 1.8978$

$D_{10} = 0.731$
 $\frac{D_{10}}{D_{20}} = 1.9100$

$D_{10} = 0.737$
 $\frac{D_{10}}{D_{20}} = 1.9183$



Krossfraktion C₁₁ by 2, und anhyd.

000485

