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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Metric tapered roller bearings — Flanged cups — Boundary dimensions

ADDENDUM 2

Draft Addendum 2 to International Standard ISO 355-1977 was developed by Technical Committee ISO/TC 4, *Rolling bearings*, and was circulated to the member bodies in March 1979.

It has been approved by the member bodies of the following countries :

Australia	Hungary	Romania
Austria	India	South Africa, Rep. of
Canada	Italy	Spain
Chile	Japan	Sweden
China	Korea, Rep. of	Switzerland
Czechoslovakia	Libyan Arab Jamahiriya	United Kingdom
Egypt, Arab Rep. of	Mexico	USA
France	Netherlands	USSR
Germany, F. R.	Poland	

No member body expressed disapproval of the document

This International Standard cancels and replaces ISO 2316-1973, *Rolling bearings — Tapered roller bearings — Boundary dimensions — Sub-units — Metric series — Outer rings with flange*.

1 Scope and field of application

This International Standard specifies flange dimensions of flanged cups for a selection of metric tapered roller bearings.

All other dimensions for cups and complete bearings are given in International Standard ISO 355. Tolerances are given in ISO/R 492 and ISO 582.

Flange dimensions suitable for flanged cups of bearings not comprised in the selection, are given in the annex, which does not form an integral part of this International Standard.

2 References

ISO 355, *Rolling bearings — Metric tapered roller bearings — Boundary dimensions and series designations*.

ISO/R 492, *Rolling bearings — Radial bearings — Tolerances*.

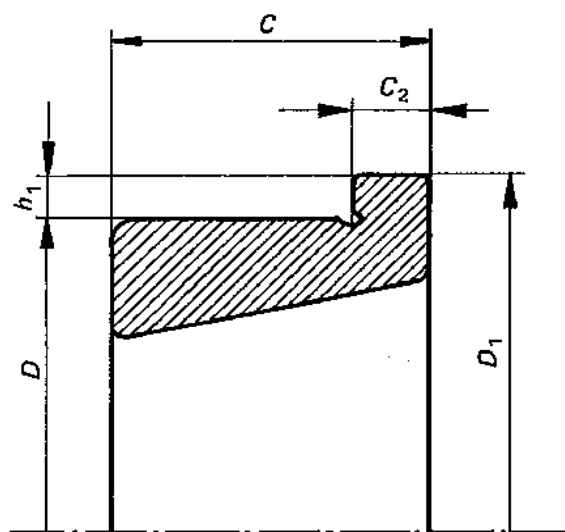
ISO 582, *Rolling bearings — Metric series bearings — Chamfer dimension limits*.

UDC 621.822.87

Ref. No. ISO 355-1977/Add. 2-1980 (E)

Descriptors : rolling bearings, roller bearings, taper roller bearings, specifications, dimensions, designations.

Price based on 7 pages



- D = bearing outside diameter, nominal
 D_1 = flange outside diameter, nominal
 C = cup width, nominal
 C_2 = flange width, nominal
 h_1 = flange height, nominal

Table 1 gives outer ring flange dimensions for metric tapered roller bearings grouped by contact angle series. (Contact angle series and dimension series are given in ISO 355.)

Table 1 — Contact angle series 2

Dimensions in millimetres

D	D ₁	C ₂										
		Dimension series										
		2CD	2CE	2DB	2DD	2DE	2EE	2FB	2FD	2FE	2GB	2GD
40	44			3	3							
42	46			—	—			3	—			
47	51			3	3			3	4			
52	57	3,5				—		3,5	4,5			
62	67	—				4,5		4	5			
65	70					4,5						
72	77		—			5		4	6			
75	79		4,5 ¹⁾			—		—	—			
75	80		4,5 ²⁾									
80	84		4,5									
80	85					5		4,5		6		
90	94		5					—	—			
90	95		—					4,5	6			
95	99		5									
100	104		5									
100	106							5	7			
110	116		5					5	8			
115	121		5					—	—			
120	127		—					5,5	8			
125	131		5,5					—	—			
130	136		5,5									
130	137		—					5,5	8			
140	146		6					—	—			
140	147		—								6	8
145	151		6								—	—
150	156		6									
150	158					—					7	10
160	168					7,5					7	10
170	178					8,5					—	—
170	179					—					7	11
180	186					8,5						
180	190										8	11
190	200										8	11
200	208							9			—	—
200	210							—			8	11
210	218					9						
215	225							—			9	12
225	233							10			—	—
225	236										9,5	12
240	251										9,5	12
260	272										11	13

1) Bearing 2CE045

2) Bearing 2CE040

Table 2 — Contact angle series 3

Dimensions in millimetres

D	D ₁	C ₂												
		Dimension series												
		3CC	3CD	3CE	3DB	3DC	3DE	3EB	3EC	3EE	3FB	3FC	3FD	3FE
42	46	3												
44	48	3												
52	57	3,5												
62	67				3,5	4								
65	70				3,5	—								
68	72		3,5											
72	77	—			4	4,5								
75	79	3,5			—	—								
80	84	3,5		—	—	—								
80	85	—		4,5	4	4,5								
85	90			5	4	4,5	5							
90	94	4			—	—	—							
90	95	—			4	4,5	5,5							
95	101			5	—	—	—							
100	106			5	4,5	5	6							
110	116						5,5	4,5	5	7				
120	127	—					6	4,5	6	7				
125	131	5					—	—	—	—				
125	132						6	5	6	7				
130	137						6	—	—	7				
140	146	5,5												
140	147						7	5	6	8				
150	158						8	5	7	9				
160	168									9	6	8		10 ¹⁾
165	173									9	—	—		—
170	179										6,5	8		10
175	184									9	—	—		—
180	190									9	7	8		10
190	200										7	9		11 ²⁾
200	210										7	10		10
280	292												11	

1) Bearing 3FE090

2) Bearing 3FE105

Table 3 — Contact angle series 4

Dimensions in millimetres

D	D ₁	C ₂										
		Dimension series										
		4CB	4CC	4DB	4DC	4EB	4EC	4FB	4FC	4FD	4GB	4GD
46 47	49 51	— 3	— 3	3 —								
50 52	54 56	3 —	— 3									
55	59	3	3									
58 60	62 64	— 3	3 —									
62 65	66 69		3 —	— 3								
70 75	75 80	— 3		3 —								
85	90			3								
90 95	95 99		— 4	3 —								
95 100	100 104	3 —	— 4									
100	105	3										
105 110	111 116	3 3	— 4,5									
115 125	121 132	3 4	4,5 —									
130	136		5									
130 135	137 142	4 4		5 —	6 —							
140 145	147 161	4 —	— 5,5									
145	152	4										
150 150	156 157	— 4	5,5 —									
160 160	167 168	5 —			— 6,5							
170	177	5										
170 180	178 188				6,5 6,5							
185 195	192 202	5 5										
200	208						8					
210 215	218 225			6 —	8 —			— 8		— 11		
220 225	228 233			6 —				— 8,5				

Table 3 — Contact angle series 4 (concluded)

Dimensions in millimetres

D	D ₁	C ₂										
		Dimension series										
		4CB	4CC	4DB	4DC	4EB	4EC	4FB	4FC	4FD	4GB	4GD
230	238			6								
230 240	241 248			— 6			— 9	8 —		11 —		
250 260	261 268			— 7			— 10	9 —		12 —		
270	278			7								
270	282										9	12
290 320	298 330			7 —			— 8					
340 370	350 380			8 —			— 9					
400 420	410 432						10 10					

Table 4 — Contact angle series 7

Dimensions in millimetres

D	D ₁	C ₂	
		Dimension series	
		7FB	7GB
62	67	4	
72 80	77 85	4 4,5	
90 100	95 106	4,5 5	
110	116	5	
120 130	127 137	5,5 5,5	
140 150	147 158		6 7
160	168		7
170 180	179 190		7 8
190 200	200 210		8 8
215 225	225 236		9 9,5
240 260	251 272		9,5 11

Annex

Flange dimensions for additional cups

(Not part of this Standard.)

A.1 Scope and field of application

This annex gives flange dimensions suitable for use in cases where a flanged cup execution of a metric tapered roller bearing is desirable, but flange dimensions are not given in the body of this International Standard. The flanged cup thus obtained must be considered as a non-standard sub-unit, until its inclusion into the body of the International Standard has been agreed by ISO.

A.2 Flange dimensions

Table 5 — Flange width

Dimensions in millimetres

C		C ₂					
		Contact angle series ¹⁾					
		Over	Incl.	2	3	4	5
	16	3	3	3	3	3	
16	19	3	4	4	4	4	
19	22	4	5	5	5	6	
22	25	5	5	6	6	7	
25	28	6	6	7	7	8	
28	31	6	7	8	8	9	
31	35	7	8	9	9	10	
35	40	8	9	10	11	11	
40	45	9	10	11	12	12	
45	52	10	11	12	13	13	
52	60	10	12	13	14	14	
60	70	11	13	14	15	15	

1) Contact angle series are given in ISO 355.

Table 6 — Flange height

Dimensions in millimetres

C ₂	D		h ₁
	Over	Incl.	
3	— 65 100	65 100 —	2 2,5 3
4	—	all	3,5
5	—	all	3,5
6	—	all	4
7	—	all	4
8	—	all	5
9	—	all	5
10	— 400	400 —	5 6
11	—	all	6
12	—	all	6
13	—	all	6
14	—	all	7
15	—	all	7

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Metric tapered roller bearings — Double row bearings — Boundary dimensions

ADDENDUM 1

Addendum 1 to International Standard ISO 355-1977 was developed by Technical Committee ISO/TC 4, *Rolling bearings*, and was circulated to the member bodies in March 1979.

It has been approved by the member bodies of the following countries :

Australia	Hungary	Romania
Austria	India	South Africa, Rep. of
Canada	Italy	Spain
Chile	Japan	Sweden
China	Korea, Rep. of	Switzerland
Czechoslovakia	Libyan Arab Jamahiriya	United Kingdom
Egypt, Arab Rep. of	Mexico	USA
France	Netherlands	USSR
Germany, F. R.	Poland	

No member body expressed disapproval of the document

1 Scope and field of application

This Addendum to ISO 355 specifies bearing width and cup width for double row metric tapered roller bearings.

Other boundary dimensions, which are identical to those of single row bearings of the same dimension series and with the same bearing bore diameter, are given in ISO 355. Tolerances are given in ISO/R 492 and ISO 582.

2 References

ISO 355, *Rolling bearings — Metric tapered roller bearings — Boundary dimensions and series designations.*

ISO/R 492, *Rolling bearings — Radial bearings — Tolerances.*

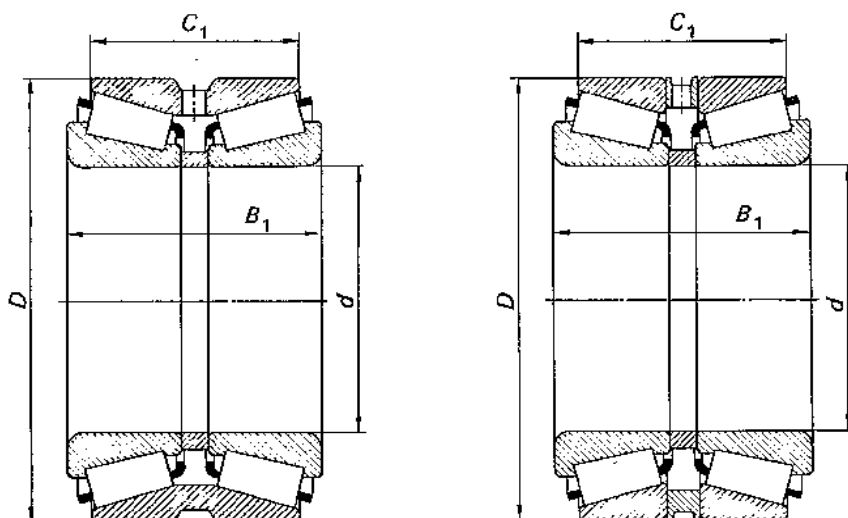
ISO 582, *Rolling bearings — Metric series bearings — Chamfer dimension limits.*

UDC 621.822.87

Ref. No. ISO 355-1977/Add. 1-1980 (E)

Descriptors : rolling bearings, roller bearings, taper roller bearings, specifications, dimensions, designations.

Price based on 6 pages



- d = bearing bore diameter, nominal
 D = bearing outside diameter, nominal
 B_1 = bearing width, nominal
 C_1 = double cup width or width over two single cups and spacer, nominal

The double row bearing cup or cup spacer may, or may not, have a lubrication groove and holes as identified by the bearing designation.

4 Bearing dimensions

Tables 1 to 4 give B_1 and C_1 for double row metric tapered roller bearings grouped by contact angle series.

The bearing outside diameter D and the dimension series designation, also included in the tables, are identical to those of the corresponding single row bearing in ISO 355.

Table 1 — Contact angle series 2

Dimensions in millimetres

<i>d</i>	<i>D</i>	<i>B</i> ₁	<i>C</i> ₁	Dimension series
20	46	39	32	2DC
	50	50	43	2ED
22	47	39	32	2CC
	52	50	43	2ED
25	50	39	32	2CC
	58	58	48	2EE
28	55	43	36	2GD
	65	61	51	2ED
30	58	44	37	2CD
	68	65	55	2EE
32	62	47	39	2CD
	72	66	55	2ED
36	68	51	42	2DD
	78	73	61	2EE
40	75	53	44	2CD
	85	73	63	2EE
45	80	53	44	2CD
	95	79	67	2ED
50	85	53	44	2CD
	100	79	67	2ED
55	85	41	33	2CC
	95	60	49	2CD
	110	87	73	2ED
60	90	42	34	2CC
	100	60	49	2CD
	115	88	74	2EE
65	100	50	41	2CC
	110	70	58	2DD
	125	95	79	2FD
70	105	50	41	2CC
	120	76	62	2DD
	130	95	79	2ED
75	115	56	46	2CC
	125	76	62	2DD
	135	95	79	2ED
80	120	56	46	2CC
	130	76	62	2DD
	145	104	88	2ED
85	125	58	48	2CC
	135	76	64	2DD
	150	104	88	2ED
90	135	64	54	2CC
	140	76	64	2CD
	155	104	88	2ED

Dimensions in millimetres

<i>d</i>	<i>D</i>	<i>B</i> ₁	<i>C</i> ₁	Dimension series
95	140	64	54	2CC
	145	76	64	2CD
	160	104	88	2ED
100	145	64	54	2DC
	150	78	64	2CD
	165	104	88	2EE
105	155	74	62	2CD
	160	84	70	2DD
	170	104	88	2EE
110	160	74	62	2CD
	165	84	70	2DD
	175	104	88	2EE
120	175	82	68	2DC
	180	92	76	2DD
	190	110	92	2EE
130	185	82	68	2DC
	190	92	76	2DD
	200	110	92	2DE
140	200	88	72	2DC
	205	98	82	2DD
	215	116	98	2ED
150	215	98	82	2DD
	225	116	98	2ED
160	225	98	82	2DD
	235	116	98	2ED
170	235	98	82	2DD
	245	116	98	2ED
180	240	88	72	2DC
	245	98	82	2DD
	255	116	98	2ED
190	255	92	76	2DC
	260	104	86	2DD
	270	124	104	2ED
200	265	92	76	2DC
	270	104	86	2DD
	280	124	104	2ED
220	285	92	76	2DC
	290	104	86	2DD
	300	124	104	2ED
240	305	92	76	2DC
	310	104	86	2DD
	320	126	104	2EE
260	325	92	76	2DC
	330	104	86	2DD
	340	126	104	2DE
280	360	126	104	2DE

Table 2 — Contact angle series 3

Dimensions in millimetres

d	D	B_1	C_1	Dimension series
20	42	34	28	3CC
22	44	34	27	3CC
40	68	44	35	3CD
45	75	46	37	3CC
50	80	46	37	3CC
55	90	52	41	3CC
65	135	112	94	3FE
76	145	112	94	3FE
80	125	66	52	3CC
85	160	118	98	3FE
90	140	73	57	3CC
110	190	126	104	3FE
130	210	126	104	3EE
150	235	132	110	3EE
170	255	132	110	3EE
180	280	142	110	3FD
190	280	140	116	3EE

Table 3 — Contact angle series 4

Dimensions in millimetres

<i>d</i>	<i>D</i>	<i>B</i> ₁	<i>C</i> ₁	Dimension series
25	47	34	27	4CC
28	52	37	29	4CC
30	55	39	31	4CC
32	58	39	31	4CC
35	62	41	33	4CC
50	105	88	74	4FE
65	115	95	81	4FE
60	95 125	52 104	41 88	4CC 4FE
65	100	52	41	4CC
70	110 140	57 112	45 94	4CC 4FE
75	115	58	46	4CC
80	150	112	94	4FE
85	130	67	53	4CC
90	165	120	100	4FE
95	145 170	73 120	57 100	4CC 4FE
100	150 175	73 120	57 100	4CC 4FE
105	160 180	80 120	62 100	4DC 4EE

Dimensions in millimetres

<i>d</i>	<i>D</i>	<i>B</i> ₁	<i>C</i> ₁	Dimension series
110	170	86	68	4DC
120	180 200	88 126	70 104	4DC 4FE
130	200	102	80	4EC
140	210 220	104 126	82 104	4DC 4EE
150	225	110	86	4EC
160	240 245	116 132	90 110	4EC 4EE
170	260	128	100	4EC
180	265	132	110	4EE
190	290	142	110	4FD
200	290 310	140 154	116 120	4EE 4FD
220	340	166	128	4FD
240	360	166	128	4FD
260	400	190	146	4FC
280	420	190	146	4FC
300	460	220	168	4GD
320	480	220	168	4GD

Table 4 — Contact angle series 7

Dimensions in millimetres

d	D	B_1	C_1	Dimension series
25	62	42	31,5	7FB
30	72	47	33,5	7FB
35	80	51	35,5	7FB
40	90	56	39,5	7FB
45	95 100	63 60	45 41,5	7FC 7FB
60	105 110	69 64	49 43,5	7FC 7FB
55	115 120	73 70	52 49	7FC 7FB
60	125 130	79 74	57 51	7FC 7FB
65	130 140	79 79	57 53	7FC 7GB
70	140 150	83 83	59 57	7FC 7GB
75	150 160	89 88	63 60	7FC 7GB
80	160 170	95 94	67 63	7FC 7GB
85	170 180	102 99	72 66	7FC 7GB
90	175 190	102 103	72 70	7FC 7GB
95	180 200	104 109	72 74	7FC 7GB
100	190 215	110 124	76 81	7FC 7GB
105	200 225	114 127	80 83	7FC 7GB
110	210 240	120 137	84 87	7GC 7GB
120	220 260	120 148	84 96	7FC 7GB
130	230 280	120 156	84 100	7FC 7GB
140	240 300	120 168	84 108	7FC 7GB
150	250 320	120 178	84 114	7FC 7GB

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K-03-09

Rolling bearings — Metric tapered roller bearings — Boundary dimensions and series designations

Roulements — Roulements à rouleaux coniques métriques — Dimensions d'encombrement et désignation des séries

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 355 was developed by Technical Committee ISO/TC 4, *Rolling bearings*, and was circulated to the member bodies in December 1975.

It has been approved by the member bodies of the following countries :

Australia	Italy	Switzerland
Austria	Japan	Turkey
Brazil	Mexico	United Kingdom
Canada	Poland	U.S.A.
Czechoslovakia	Romania	U.S.S.R.
Germany	South Africa, Rep. of	Yugoslavia
Hungary	Spain	
India	Sweden	

The member body of the following country expressed disapproval of the document on technical grounds :

France

This International Standard cancels and replaces ISO Recommendations R 355 Parts I to VII and International Standard ISO 355/VIII, of which documents it constitutes a technical revision.

Rolling bearings — Metric tapered roller bearings — Boundary dimensions and series designations

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies bearing and sub-unit boundary dimensions for single-row metric tapered roller bearings.

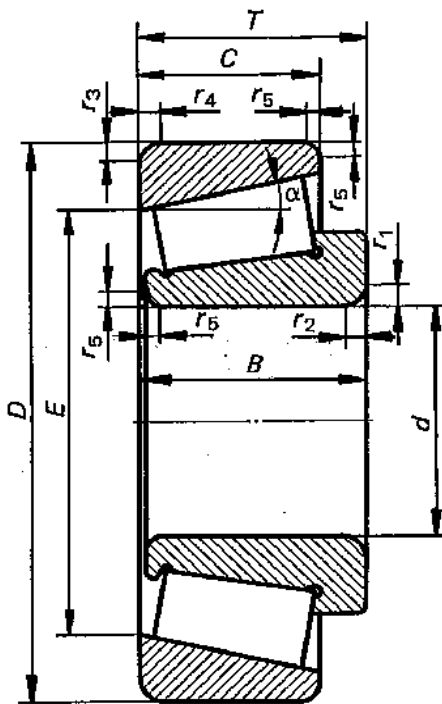
It also specifies a series designation for each bearing. The designation system shown in clause 3 shall not be applied

to bearings not included in clause 4 of this International Standard.

Tolerances for the dimensions are given in separate ISO publications.

For front face chamfers r_E , no dimensions are given in this International Standard; however, the front face corners should not be sharp.

The third symbol is an alphabetic character, which represents a range of numeric values for the width to section height relationship, width series.



- d = bearing bore diameter, nominal
- D = bearing outside diameter, nominal
- T = bearing width, nominal
- B = cone width, nominal
- C = cup width, nominal
- E = cup small inside diameter, nominal
- α = bearing contact angle, nominal
- r_1 = cone back face chamfer height
- r_{1min} = smallest single r_1
- r_2 = cone back face chamfer width
- r_{2min} = smallest single r_2
- r_3 = cup back face chamfer height
- r_{3min} = smallest single r_3
- r_4 = cup back face chamfer width
- r_{4min} = smallest single r_4
- r_5 = cone and cup front face chamfer height and width (see clause 1)

3 SERIES DESIGNATIONS

Each bearing, the dimensions of which are given in this International Standard, is referred to a dimension series. The dimension series is designated by a combination of three symbols, for example 2AC.

The first symbol is a numeric character, which represents a range of contact angles, angle series.

The second symbol is an alphabetic character, which represents a range of numeric values for the outside diameter to bore relationship, diameter series.

TABLE 1 - Series designation

Angle series designation	α	
	Over	Incl.
1	Reserved for future use	
2	10°	13° 52'
3	13° 52'	15° 59'
4	15° 59'	18° 55'
5	18° 55'	23°
6	23°	27°
7	27°	30°

Diameter series designation	$\frac{D}{d^{0,77}}$	
	Over	Incl.
A	Reserved for future use	
B	3,40	3,80
C	3,80	4,40
D	4,40	4,70
E	4,70	5,00
F	5,00	5,60
G	5,60	7,00

Width series designation	$\frac{T}{(D-d)^{0,95}}$	
	Over	Incl.
A	Reserved for future use	
B	0,60	0,68
C	0,68	0,80
D	0,80	0,88
E	0,88	1,00

The designations for the standardized bearings conform generally with the angle ranges and the numeric values for the relationships given in table 1. In some cases an exception has been made to avoid the condition that the same designation be used for two different bearings with the same bore diameter.

4 BOUNDARY DIMENSIONS

In tables 2 to 6, bearing and sub-unit boundary dimensions have been grouped by contact angle series and then listed in ascending order of bore, outside diameter and bearing width.

TABLE 2 — Contact angle series 2

Values in millimetres and degrees

d	D	T	B	r_{1smin} r_{2smin}	C	r_{3smin} r_{4smin}	α	E	Dimension series
15	42	14,25	13	1	11	1	10° 45' 29"	33,272	2FB
17	40	13,25	12	1	11	1	12° 57' 10"	31,408	2DB
17	40	17,25	16	1	14	1	11° 45'	31,170	2DD
17	47	15,25	14	1	12	1	10° 45' 29"	37,420	2FB
17	47	20,25	19	1	16	1	10° 45' 29"	36,090	2FD
20	37	12	12	0,3	9	0,3	12°	29,621	2BD
20	45	17	17,5	1	13,5	1	12°	35,815	2DC
20	47	16,25	14	1	12	1	12° 57' 10"	37,304	2DB
20	47	19,25	18	1	15	1	12° 28'	35,810	2DD
20	50	22	22	2	18,5	1,5	12° 30'	38,083	2ED
20	52	16,25	15	1,5	13	1,5	11° 18' 36"	41,318	2FB
20	52	22,25	21	1,5	18	1,5	11° 18' 36"	39,518	2FD
22	40	12	12	0,3	9	0,3	12°	32,665	2BC
22	47	17	17,5	1	13,5	1	12° 35'	37,542	2CC
22	52	22	22	2	18,5	1,5	12° 14'	40,548	2ED
25	42	12	12	0,3	9	0,3	12°	34,608	2BD
25	47	17	17	0,6	14	0,6	10° 55'	38,278	2CE
25	50	17	17,5	1,5	13,5	1	13° 30'	40,205	2CC
25	52	19,25	18	1	16	1	13° 30'	41,331	2CD
25	52	22	22	1	18	1	13° 10'	40,441	2DE
25	58	26	26	2	21	1,5	12° 30'	44,805	2EE
25	62	18,25	17	1,5	15	1,5	11° 18' 36"	50,637	2FB
25	62	25,25	24	1,5	20	1,5	11° 18' 36"	48,637	2FD
28	45	12	12	0,3	9	0,3	12°	37,639	2BD
28	55	19	19,5	1,5	15,5	1,5	12° 10'	44,888	2CD
28	58	24	24	1	19	1	12° 45'	45,846	2DE
28	65	27	27	2	22	2	12° 45'	50,330	2ED
30	47	12	12	0,3	9	0,3	12°	39,617	2BD
30	55	20	20	1	16	1	11°	45,283	2CE
30	58	19	19,5	1,5	15,5	1,5	12° 50'	47,309	2CD
30	62	25	25	1	19,5	1	12° 50'	49,524	2DE
30	68	29	29	2	24	2	12° 28'	52,696	2EE
30	72	20,75	19	1,5	16	1,5	11° 51' 35"	58,287	2FB
30	72	28,75	27	1,5	23	1,5	11° 51' 35"	55,767	2FD
32	52	14	15	0,6	10	0,6	12°	44,261	2BD
32	62	21	21	1,5	17	1,5	12° 30'	50,554	2CD
32	65	26	26	1	20,5	1	13°	51,791	2DE
32	72	29	29	2	24	2	12° 41' 30"	56,151	2ED
35	55	14	14	0,6	11,5	0,6	11°	47,220	2BD
35	62	21	21	1	17	1	11° 30'	51,320	2CE
35	68	23	23	2	18,5	2	12° 35'	55,400	2DD
35	72	28	28	1,5	22	1,5	13° 15'	57,186	2DE
35	78	33	32,5	2,5	27	2	12° 12'	61,925	2EE
35	80	22,75	21	2	18	1,5	11° 51' 35"	65,769	2FB
35	80	32,75	31	2	25	1,5	11° 51' 35"	62,829	2FE

TABLE 2 (continued)

Values in millimetres and degrees

<i>d</i>	<i>D</i>	<i>T</i>	<i>B</i>	<i>r</i> _{1smin} <i>r</i> _{2smin}	<i>C</i>	<i>r</i> _{3smin} <i>r</i> _{4smin}	α	<i>E</i>	Dimension series
40	62	15	15	0,6	12	0,6	10° 55'	63,388	2BC
40	68	22	22	1	18	1	10° 40'	57,290	2BE
40	75	24	24	2	19,5	2	12° 07'	62,155	2CD
40	75	26	26	1,5	20,5	1,5	13° 20'	61,169	2CE
40	80	32	32	1,5	25	1,5	13° 25'	63,405	2DE
40	85	33	32,5	2,5	28	2	12° 55'	66,612	2EE
40	90	25,25	23	2	20	1,5	12° 57' 10"	72,703	2FB
40	90	35,25	33	2	27	1,5	12° 57' 10"	69,253	2FD
45	68	15	15	0,6	12	0,6	12°	58,852	2BC
45	75	24	24	1	19	1	11° 05'	63,116	2CE
45	80	24	24	2	19,5	2	13°	66,615	2CD
45	95	36	35	2,5	30	2,5	12° 09'	75,712	2ED
45	100	27,25	25	2	22	1,5	12° 57' 10"	81,780	2FB
45	100	38,25	36	2	30	1,5	12° 57' 10"	78,330	2FD
50	72	15	15	0,6	12	0,6	12° 50'	62,748	2BC
50	80	24	24	1	19	1	11° 55'	67,775	2CE
50	85	24	24	2	19,5	2	13° 52'	70,969	2CD
50	100	36	35	2,5	30	2,5	12° 51'	79,996	2ED
50	110	29,25	27	2,5	23	2	12° 57' 10"	90,633	2FB
50	110	42,25	40	2,5	33	2	12° 57' 10"	86,263	2FD
55	80	17	17	1	14	1	11° 39'	69,503	2BC
55	85	18	18,5	2	14	2	12° 49'	73,586	2CC
55	90	27	27	1,5	21	1,5	11° 45'	76,656	2CE
55	95	27	27	2	21,5	2	12° 43' 30"	80,108	2CD
55	110	39	39	2,5	32	2,5	13°	88,446	2ED
55	120	31,5	29	2,5	25	2	12° 57' 10"	99,146	2FB
55	120	45,5	43	2,5	35	2	12° 57' 10"	94,316	2FD
60	85	17	17	1	14	1	12° 27'	74,186	2BC
60	90	18	18,5	2	14	2	13° 38' 30"	78,249	2CC
60	95	27	27	1,5	21	1,5	12° 20'	80,422	2CE
60	100	27	27	2	21,5	2	13° 27'	84,587	2CD
60	115	40	39	2,5	33	2,5	12° 30'	93,460	2EE
60	130	33,5	31	3	26	2,5	12° 57' 10"	107,769	2FB
60	130	48,5	46	3	37	2,5	12° 57' 10"	102,939	2FD
65	90	17	17	1	14	1	13° 15'	78,849	2BC
65	100	22	22	2	17,5	2	12° 10' 30"	87,433	2CC
65	100	27	27	1,5	21	1,5	13° 05'	85,257	2CE
65	110	31	31	2	25	2	12° 27'	93,090	2DD
65	125	43	42	2,5	35	2,5	12°	102,378	2FD
65	140	36	33	3	28	2,5	12° 57' 10"	116,846	2GB
65	140	51	48	3	39	2,5	12° 57' 10"	111,786	2GD
70	100	20	20	1	16	1	11° 53'	88,590	2BC
70	105	22	22	2	17,5	2	12° 49' 30"	92,004	2CC
70	110	31	31	1,5	25,5	1,5	10° 46'	96,021	2CE
70	120	34	33	2	27	2	12° 22'	101,343	2DD
70	130	43	42	3	35	2,5	12° 31' 30"	106,766	2ED
70	150	38	35	3	30	2,5	12° 57' 10"	125,244	2GB
70	150	54	51	3	42	2,5	12° 57' 10"	119,724	2GD

TABLE 2 (continued)

Values in millimetres and degrees

d	D	T	B	r_{1smin} r_{2smin}	C	r_{3smin} r_{4smin}	α	E	Dimension series
75	105	20	20	1	16	1	12° 31'	93,223	2BC
75	115	25	25	2	20	2	12°	100,414	2CC
75	115	31	31	1,5	25,5	1,5	11° 15'	99,400	2CE
75	125	34	33	2,5	27	2	12° 55'	105,786	2DD
75	135	43	42	3	35	2,5	13° 03'	111,153	2ED
75	160	40	37	3	31	2,5	12° 57' 10"	134,097	2GB
75	160	58	55	3	45	2,5	12° 57' 10"	127,887	2GD
80	110	20	20	1	16	1	13° 10'	97,974	2BC
80	120	25	25	2	20	2	12° 33' 30"	105,003	2CC
80	125	36	36	1,5	29,5	1,5	10° 30'	107,750	2CE
80	130	34	33	2,5	27	2	13° 30'	110,475	2DD
80	145	46	45	3	38	2,5	12° 02'	120,366	2ED
80	170	42,5	39	3	33	2,5	12° 57' 10"	143,174	2GB
80	170	61,5	58	3	48	2,5	12° 57' 10"	136,504	2GD
85	120	23	23	1,5	18	1,5	12° 18'	106,599	2BC
85	125	25	25	2,5	20	2	13° 7' 30"	109,650	2CC
85	130	36	36	1,5	29,5	1,5	11°	112,838	2CE
85	135	34	33	2,5	28	2	13° 02'	115,904	2DD
85	150	46	46	3	38	3	12° 30'	124,965	2ED
85	180	44,5	41	4	34	3	12° 57' 10"	150,433	2GB
85	180	63,5	60	4	49	3	12° 57' 10"	144,223	2GD
90	125	23	23	1,5	18	1,5	12° 51'	111,282	2BC
90	135	28	27,5	2,5	23	2	12° 01' 30"	119,139	2CC
90	140	34	33	2,5	28	2,5	12° 02' 30"	121,860	2CD
90	140	39	39	2	32,5	1,5	10° 10'	122,363	2CE
90	155	46	46	3	38	3	12° 17'	130,206	2ED
90	190	46,5	43	4	36	3	12° 57' 10"	159,061	2GB
90	190	67,5	64	4	53	3	12° 57' 10"	151,701	2GD
95	130	23	23	1,5	18	1,5	13° 25'	116,082	2BC
95	140	28	27,5	2,5	23	2,5	12° 30'	123,797	2CC
95	145	34	33	2,5	28	2,5	12° 30'	126,419	2CD
95	145	39	39	2	32,5	1,5	10° 30'	126,346	2CE
95	160	46	46	3	38	3	12° 43'	134,711	2ED
95	200	49,5	45	4	38	3	12° 57' 10"	165,861	2GB
95	200	71,5	67	4	55	3	12° 57' 10"	160,318	2GD
100	140	25	25	1,5	20	1,5	12° 23'	125,717	2CC
100	145	28	27,5	2,5	23	2,5	12° 58' 30"	128,448	2DC
100	150	34	33	2,5	28	2,5	12° 57' 30"	130,992	2CD
100	150	39	39	2	32,5	1,5	10° 50'	130,323	2CE
100	165	47	46	3	39	3	12°	140,251	2EE
100	215	51,5	47	4	39	3	12° 57' 10"	178,578	2GB
100	215	77,5	73	4	60	3	12° 57' 10"	171,650	2GD
105	145	25	25	1,5	20	1,5	12° 51'	130,359	2CC
105	155	33	31,5	2,5	27	2,5	12° 17' 30"	137,045	2CD
105	160	38	37	3	31	2,5	12° 17' 30"	139,734	2DD
105	160	43	43	2,5	34	2	10° 40'	139,304	2DE
105	170	47	46	3	39	3	12° 18' 30"	145,104	2EE
105	225	53,5	49	4	41	3	12° 57' 10"	186,752	2GB
105	225	81,5	77	4	63	3	12° 57' 10"	179,369	2GD

TABLE 2 (continued)

Values in millimetres and degrees

d	D	T	B	$r_{1\text{min}}$ $r_{2\text{min}}$	C	$r_{3\text{min}}$ $r_{4\text{min}}$	α	E	Dimension series
110	160	25	25	1,5	20	1,5	13° 20'	135,182	2CC
110	160	33	31,5	2,5	27	2,5	12° 42' 30"	141,607	2CD
110	165	38	37	3	31	2,5	12° 42' 30"	144,376	2DD
110	170	47	47	2,5	37	2	10° 50'	146,265	2DE
110	175	47	46	4	39	3	12° 41' 30"	149,543	2EE
110	240	64,5	50	4	42	3	12° 57' 10"	199,925	2GB
110	240	84,5	80	4	65	3	12° 57' 10"	192,071	2GD
120	165	29	29	1,5	23	1,5	13° 05'	148,464	2CC
120	175	36	35	2,5	29	2,5	12° 08'	155,479	2DC
120	180	41	40	3	33	2,5	12° 08' 30"	158,233	2DD
120	180	48	48	2,5	38	2	11° 30'	154,777	2DE
120	190	50	49	4	41	3	12° 09' 30"	163,635	2EE
120	260	59,5	55	4	46	3	12° 57' 10"	214,892	2GB
120	260	90,5	86	4	69	3	12° 57' 10"	207,039	2GD
130	180	32	32	2	25	1,5	12° 45'	161,652	2CC
130	185	38	35	3	29	2,5	12° 52'	164,714	2DC
130	190	41	40	3	33	2,5	12° 51' 30"	167,414	2DD
130	200	50	49	4	41	3	12° 50' 30"	172,653	2DE
130	200	55	55	2,5	43	2	12° 50'	172,017	2EE
130	280	63,75	58	5	49	4	12° 57' 10"	232,028	2GB
140	190	32	32	2	25	1,5	13° 30'	171,032	2CC
140	200	39	38	3	31	2,5	12°	179,234	2DC
140	205	44	43	3	36	2,5	12°	181,645	2DD
140	210	56	56	2,5	44	2	13° 30'	180,353	2DE
140	215	53	52	4	44	3	12°	187,051	2ED
140	300	67,76	62	5	53	4	12° 57' 10"	247,910	2GB
150	210	38	38	2,5	30	2	12° 20'	187,926	2DC
150	215	44	43	3	36	3	12° 37'	190,810	2DD
150	225	53	52	4	44	4	12° 35' 30"	196,097	2ED
150	225	59	59	3	46	2,5	13° 40'	194,260	2EE
150	320	72	65	5	55	4	12° 57' 10"	265,955	2GB
160	220	38	38	2,5	30	2	13°	197,962	2DC
160	225	44	43	3	36	3	13° 14' 30"	200,146	2DD
160	235	53	52	4	44	4	13° 11' 30"	205,257	2ED
160	340	75	68	5	58	4	12° 57' 10"	282,751	2GB
170	235	44	43	3	36	3	12° 13' 30"	211,345	2DD
170	245	53	52	5	44	4	12° 14'	216,610	2ED
170	360	80	72	5	62	4	12° 57' 10"	299,991	2GB
180	240	39	38	3	31	3	12° 47'	218,311	2DC
180	245	44	43	3	36	3	12° 46' 30"	220,684	2DD
180	255	53	52	5	44	4	12° 46'	225,875	2ED

TABLE 2 (concluded)

Values in millimetres and degrees

d	D	T	B	r_{1smin} r_{2smin}	C	r_{3smin} r_{4smin}	α	E	Dimension series
190	265	41	40	3	33	3	12° 15'	232,396	2DC
190	260	47	46	4	38	3	12° 15'	234,615	2DD
190	270	56	55	5	46	4	12° 15' 30''	240,017	2ED
200	265	41	40	3	33	3	12° 45'	241,710	2DC
200	270	47	46	4	38	3	12° 45'	244,043	2DD
200	280	56	55	5	46	4	12° 44' 30''	249,300	2ED
220	285	41	40	4	33	3	12°	262,657	2DC
220	290	47	46	4	38	3	12°	265,261	2DD
220	300	56	55	5	46	4	12° 04' 30''	270,389	2ED
240	305	41	40	4	33	3	12° 53'	281,653	2DC
240	310	47	46	4	38	3	12° 52'	284,085	2DD
240	320	57	56	6	46	4	12° 55' 30''	289,075	2EE
260	325	41	40	4	33	4	13° 46'	300,661	2DC
260	330	47	46	4	38	4	13° 44' 30''	303,004	2DD
260	340	57	56	6	46	4	12° 07' 30''	310,322	2DE
280	360	57	56	6	46	5	12° 52' 30''	329,164	2DE

TABLE 3 — Contact angle series 3

Values in millimetres and degrees

<i>d</i>	<i>D</i>	<i>T</i>	<i>B</i>	<i>r</i> _{1smin} <i>r</i> _{2smin}	<i>C</i>	<i>r</i> _{3smin} <i>r</i> _{4smin}	α	<i>E</i>	Dimension series
20	42	15	15	0,6	12	0,6	14°	32,781	3CC
22	44	15	15	0,6	11,5	0,6	14° 50'	34,708	3CC
25	52	16,25	15	1	13	1	14° 02' 10''	41,135	3CC
30	62	17,25	16	1	14	1	14° 02' 10''	49,990	3DB
30	62	21,25	20	1	17	1	14° 02' 10''	48,982	3DC
32	65	18,25	17	1	15	1	14°	52,500	3DB
35	72	18,25	17	1,5	15	1,5	14° 02' 10''	58,844	3DB
35	72	24,25	23	1,5	19	1,5	14° 02' 10''	57,087	3DC
40	68	19	19	1	14,5	1	14° 10'	56,897	3CD
40	80	19,75	18	1,5	16	1,5	14° 02' 10''	65,730	3DB
40	80	24,75	23	1,5	19	1,5	14° 02' 10''	64,715	3DC
45	75	20	20	1	15,5	1	14° 40'	63,248	3CC
45	80	26	26	1,5	20,5	1,5	14° 20'	65,700	3CE
45	85	20,75	19	1,5	16	1,5	15° 06' 34''	70,440	3DB
45	85	24,75	23	1,5	19	1,5	15° 06' 34''	69,610	3DC
45	85	32	32	1,5	25	1,5	14° 25'	68,075	3DE
50	80	20	20	1	15,5	1	15° 45'	67,841	3CC
50	85	26	26	1,5	20	1,5	15° 20'	70,214	3CE
50	90	21,75	20	1,5	17	1,5	15° 38' 32''	75,078	3DB
50	90	24,75	23	1,5	19	1,5	15° 38' 32''	74,226	3DC
50	90	32	32	1,5	24,5	1,5	15° 25'	72,727	3DE
55	90	23	23	1,5	17,5	1,5	15° 10'	76,505	3CC
55	95	30	30	1,5	23	1,5	14°	78,893	3CE
55	100	22,75	21	2	18	1,5	15° 06' 34''	84,197	3DB
55	100	26,75	25	2	21	1,5	15° 06' 34''	82,837	3DC
55	100	35	35	2	27	1,5	14° 55'	81,240	3DE
60	100	30	30	1,5	23	1,5	14° 50'	83,522	3CE
60	110	23,75	22	2	19	1,5	15° 06' 34''	91,876	3EB
60	110	29,75	28	2	24	1,5	15° 06' 34''	90,236	3EC
60	110	38	38	2	29	1,5	15° 05'	89,032	3EE
65	110	34	34	1,5	26,5	1,5	14° 30'	91,653	3DE
65	120	24,75	23	2	20	1,5	15° 06' 34''	101,934	3EB
65	120	32,75	31	2	27	1,5	15° 06' 34''	99,484	3EC
65	120	41	41	2	32	1,5	14° 35'	97,863	3EE
65	135	52	51	5	43	3	15° 55' 30''	102,611	3FE
70	120	37	37	2	29	1,5	14° 10'	99,733	3DE
70	125	26,25	24	2	21	1,5	15° 38' 32''	105,748	3EB
70	125	33,25	31	2	27	1,5	15° 38' 32''	103,765	3EC
70	125	41	41	2	32	1,5	15° 15'	102,275	3EE
75	125	37	37	2	29	1,5	14° 50'	104,358	3DE
75	130	41	41	2	31	1,5	15° 55'	106,675	3EE
75	145	52	51	5	43	3	15° 57'	112,507	3FE

TABLE 3 (concluded)

Values in millimetres and degrees

<i>d</i>	<i>D</i>	<i>T</i>	<i>B</i>	$r_{1\text{min}}$ $r_{2\text{min}}$	<i>G</i>	$r_{3\text{min}}$ $r_{4\text{min}}$	α	<i>E</i>	Dimension series
80	125	29	29	1,5	22	1,5	15° 45'	107,334	3CC
80	130	37	37	2	29	1,5	15° 30'	108,970	3DE
80	140	28,25	26	2,5	22	2	15° 38' 32"	119,169	3EB
80	140	35,25	33	2,5	28	2	15° 38' 32"	117,466	3EC
80	140	46	46	2,5	35	2	15° 50'	114,582	3EE
85	140	41	41	2,5	32	2	15° 10'	117,097	3DE
85	150	30,5	28	2,5	24	2	15° 38' 32"	126,685	3EB
85	150	38,5	36	2,5	30	2	15° 38' 32"	124,970	3EC
85	150	49	49	2,5	37	2	15° 35'	122,894	3EE
85	160	55	54	5	45	3	15° 43'	126,101	3FE
90	140	32	32	2	24	1,5	15° 45'	119,948	3CC
90	150	45	45	2,5	35	2	14° 50'	126,283	3DE
90	160	32,5	30	2,5	26	2	15° 38' 32"	134,901	3FB
90	160	42,5	40	2,5	34	2	15° 38' 32"	132,615	3FC
90	160	55	55	2,5	42	2	15° 40'	129,820	3FE
95	160	49	49	2,5	38	2	14° 35'	133,240	3EE
95	170	34,5	32	3	27	2,5	15° 38' 32"	143,385	3FB
95	170	45,5	43	3	37	2,5	15° 38' 32"	140,259	3FC
95	170	58	58	3	44	2,5	15° 15'	138,642	3FE
100	165	52	52	2,5	40	2	15° 10'	137,129	3EE
100	180	37	34	3	29	2,5	15° 38' 32"	161,310	3FB
100	180	49	46	3	39	2,5	15° 38' 32"	148,184	3FC
100	180	63	63	3	48	2,5	15° 05'	145,949	3FE
105	175	56	56	2,5	44	2	15° 05'	144,427	3EE
105	190	39	36	3	30	2,5	15° 38' 32"	159,795	3FB
105	190	53	50	3	43	2,5	15° 38' 32"	155,269	3FC
105	190	68	68	3	52	2,5	15°	153,622	3FE
110	180	56	56	2,5	43	2	15° 35'	149,127	3EE
110	190	58	57	6	47	3	15° 48'	164,133	3FE
110	200	41	38	3	32	2,5	15° 38' 32"	168,548	3FB
110	200	56	53	3	46	2,5	15° 38' 32"	164,022	3FC
120	200	62	62	2,5	48	2	14° 50'	166,144	3FE
130	210	58	57	6	47	4	15° 50' 30"	174,091	3EE
150	235	61	59	6	50	4	15° 53'	196,798	3EE
170	230	38	38	2,5	30	2	14° 20'	206,564	3DC
170	255	61	59	6	50	4	15° 55'	216,949	3EE
180	280	64	64	3	48	2,5	15° 45'	239,898	3FD
190	280	64	62	6	52	4	15° 58' 30"	239,995	3EE
200	280	51	51	3	39	2,5	14° 45'	249,698	3EC
200	360	104	98	5	82	4	15° 10'	294,880	3GD
220	300	51	51	3	39	2,5	15° 50'	267,685	3EC
260	360	63,5	63,5	3	48	2,5	15° 10'	320,783	3EC
300	420	76	76	4	57	3	14° 45'	374,706	3FD
320	440	76	76	4	57	3	15° 30'	393,408	3FD

TABLE 4 -- Contact angle series 4

Values in millimetres and degrees

<i>d</i>	<i>D</i>	<i>T</i>	<i>B</i>	$r_{1\text{min}}$ $r_{2\text{min}}$	<i>C</i>	$r_{3\text{min}}$ $r_{4\text{min}}$	α	<i>E</i>	Dimension series
20	45	14	14	1	10	1	16° 40'	35,679	4DB
22	47	14	14	1	10	1	17° 30'	37,443	4CB
25	47	15	15	0,6	11,5	0,6	16°	37,393	4CC
25	50	14	14	1	10	1	18° 45'	40,025	4CB
28	52	16	16	1	12	1	16°	41,991	4CC
28	55	16	14,5	1	11	1	17° 30'	44,597	4CB
30	55	17	17	1	13	1	16°	44,438	4CC
30	60	17	16,5	1	12,5	1	17° 30'	48,465	4CB
32	58	17	17	1	13	1	16° 50'	46,708	4CC
32	65	18	17,5	1	13,5	1	17° 30'	52,418	4DB
35	62	18	18	1	14	1	16° 50'	50,510	4CC
35	70	19	18	1	14	1	16° 49' 30''	57,138	4DB
40	75	19	18	1	14	1	18° 10' 30''	61,526	4CB
45	85	21	20	2	15,5	2	16° 55' 30''	70,252	4DB
50	90	21	20	2	15,5	2	18° 04' 30''	74,870	4DB
50	105	41	40	4	34	2,5	16° 41'	78,494	4FE
55	95	21	20	2	15,5	2	16° 33'	80,790	4CB
55	115	44	42	5	37	2,5	16° 15'	86,683	4FE
60	95	23	23	1,5	17,5	1,5	16°	80,634	4CC
60	100	21	20	2	15,5	2	17° 30'	85,256	4CB
60	125	48	46	5	40	2,5	16° 15'	94,207	4FE
65	100	23	23	1,5	17,5	1,5	17°	85,567	4CC
65	105	21	20	2	15,5	2	18° 27'	89,709	4CB
70	110	21	20	2	15,5	2	17° 05'	95,533	4CB
70	110	25	25	1,5	19	1,5	16° 10'	93,633	4CC
70	140	52	51	5	43	3	16° 34' 30''	106,644	4FE
75	115	21	20	2	15,5	2	17° 55'	100,019	4CB
75	115	26	25	1,5	19	1,5	17°	98,358	4CC
75	130	27,25	25	2	22	1,5	16° 10' 20''	110,408	4DB
75	130	33,25	31	2	27	1,5	16° 10' 20''	108,932	4DC
80	125	24	22,5	2	17,5	2	16° 46'	108,745	4CB
80	150	52	51	5	43	3	16° 33'	116,580	4FE
85	130	24	22,5	2	17,5	2	17° 30'	113,315	4CB
85	130	29	29	1,5	22	1,5	16° 25'	111,788	4CC
90	135	24	22,5	2	17,5	2	18° 14'	117,895	4CB
90	165	55	54	5	45	3	16° 15'	130,224	4FE
95	140	24	22,5	2	17,5	2	16° 51'	123,776	4CB
95	145	32	32	2	24	1,5	16° 25'	124,927	4CC
95	170	55	54	5	45	3	16° 47'	134,331	4FE
100	145	24	22,5	3	17,5	3	17° 30'	128,389	4CB
100	150	32	32	2	24	1,5	17°	129,269	4CC
100	175	55	54	6	45	3	16°	140,655	4FE
105	150	24	22,5	3	17,5	3	18° 09'	132,982	4CB
105	180	35	35	2,5	26	2	16° 30'	137,685	4DC
105	180	55	54	6	45	3	16° 30'	144,884	4EE

TABLE 4 (continued)

Values in millimetres and degrees

<i>d</i>	<i>D</i>	<i>T</i>	<i>B</i>	<i>r</i> _{1smin} <i>r</i> _{2smin}	<i>C</i>	<i>r</i> _{3smin} <i>r</i> _{4smin}	α	<i>E</i>	Dimension series
110	160	27	25,5	3	19,5	3	16° 24'	142,292	4CB
110	170	38	38	2,5	29	2	16°	146,290	4DC
120	170	27	25	3	19,5	3	17° 30'	151,495	4CB
120	180	38	38	2,5	29	2	17°	155,239	4DC
120	200	58	57	6	47	3	16° 42'	162,590	4FE
120	215	43,5	40	3	34	2,5	16° 10' 20"	181,257	4FB
120	215	61,5	58	3	50	2,5	16° 10' 20"	174,826	4FD
130	185	29	27	3	21	3	17° 30'	165,002	4CB
130	200	45	45	2,5	34	2	16° 10'	172,043	4EC
130	230	43,75	40	4	34	3	16° 10' 20"	196,420	4FB
130	230	67,75	64	4	54	3	16° 10' 20"	187,088	4FD
140	195	29	27	3	21	3	18° 32'	174,512	4CB
140	210	45	45	2,5	34	2	17°	180,720	4DC
140	220	58	57	6	47	4	16° 39' 30"	182,746	4EE
140	250	45,75	42	4	36	3	16° 10' 20"	212,270	4FB
140	250	71,75	68	4	58	3	16° 10' 20"	204,046	4FD
150	210	32	30	3	23	3	17° 04'	188,281	4DB
150	225	48	48	3	36	2,5	17°	193,674	4EC
150	270	49	45	4	38	3	16° 10' 20"	227,408	4GB
150	270	77	73	4	60	3	16° 10' 20"	219,157	4GD
160	220	32	30	3	23	3	17° 57' 30"	197,895	4DB
160	240	51	51	3	38	2,5	17°	207,209	4EC
160	245	61	59	6	50	4	16° 37'	205,576	4EE
160	290	52	48	4	40	3	16° 10' 20"	244,958	4GB
160	290	84	80	4	67	3	16° 10' 20"	234,942	4GD
170	230	32	30	3	23	3	17° 06'	208,314	4DB
170	260	57	57	3	43	2,5	16° 30'	223,031	4EC
170	310	57	52	5	43	4	16° 10' 20"	262,483	4GB
170	310	91	86	5	71	4	16° 10' 20"	251,873	4GD
180	240	32	30	3	23	3	17° 54'	217,699	4DB
180	250	45	45	2,5	34	2	17° 45'	218,571	4DC
180	265	61	59	6	50	4	16° 35'	225,723	4EE
180	320	57	52	5	43	4	16° 41' 57"	270,928	4GB
180	320	91	86	5	71	4	16° 41' 57"	259,938	4GD
190	260	37	34	3	27	3	16° 46'	234,451	4DB
190	260	45	45	2,5	34	2	17° 39'	228,578	4DC
190	290	64	64	3	48	2,5	16° 25'	249,853	4FD
190	340	60	55	5	46	4	16° 10' 20"	291,083	4GB
190	340	97	92	5	75	4	16° 10' 20"	279,024	4GD
200	270	37	34	3	27	3	17° 30'	244,350	4DB
200	290	64	62	6	52	4	16° 34'	248,588	4EE
200	310	70	70	3	53	2,5	16°	266,039	4FD
200	360	64	58	5	48	4	16° 10' 20"	307,196	4GB
220	290	37	34	3	27	3	18° 54'	263,120	4DB
220	340	76	76	4	57	3	16°	292,464	4FD

TABLE 4 (concluded)

Values in millimetres and degrees

<i>d</i>	<i>D</i>	<i>T</i>	<i>B</i>	<i>r</i> _{1smin} <i>r</i> _{2smin}	<i>C</i>	<i>r</i> _{3smin} <i>r</i> _{4smin}	α	<i>E</i>	Dimension series
240	320	42	39	3	30	3	16° 58'	291,676	4EB
240	320	51	51	3	39	2,5	17°	286,952	4EC
240	360	76	76	4	57	3	17°	310,356	4FD
260	340	42	39	3	30	3	18° 04'	310,497	4DB
260	400	87	87	5	65	4	16° 10'	344,432	4FC
280	370	48	44	3	34	3	17° 30'	337,067	4EB
280	380	63,5	63,5	3	48	2,5	16° 05'	339,778	4EC
280	420	87	87	5	65	4	17°	361,811	4FC
300	400	52	49	3	37	3	17°	364,238	4EB
300	460	100	100	5	74	4	16° 10'	395,676	4GD
320	420	53	49	3	38	3	17° 55'	382,798	4EB
320	480	100	100	5	74	4	17°	415,640	4GD
340	460	76	76	4	57	3	16° 15'	412,043	4FD
360	480	76	76	4	57	3	17°	430,612	4FD

TABLE 5 — Contact angle series 5

Values in millimetres and degrees

d	D	T	B	$r_{1\text{min}}$ $r_{2\text{min}}$	C	$r_{3\text{min}}$ $r_{4\text{min}}$	α	E	Dimension series
20	47	19,25	18	1	15	1	19°	33,708	5DD
25	52	19,25	18	1	15	1	21° 15'	37,555	5CD
28	58	20,25	19	1	16	1	20° 34'	42,436	5DD
30	62	21,25	20	1	17	1	20° 34'	46,389	5DC
30	72	28,75	27	1,5	23	1,5	20°	50,518	5FD
32	65	22	21,5	1	17	1	20°	48,523	5DC
32	75	29,75	28	1,5	23	1,5	20°	53,594	5FD
35	72	24,25	23	1,5	19	1,5	21° 10'	53,052	5DC
35	80	32,75	31	2	25	1,5	20°	57,011	5FE
40	80	24,75	23	1,5	19	1,5	20°	61,438	5DC
40	80	27	26,5	4	21,5	2	20° 43' 30"	58,963	5DD
40	90	35,25	33	2	27	1,5	20°	63,708	5FD
45	85	24,75	23	1,5	19	1,5	21° 35'	66,138	5DC
45	90	32	31	4	26	2	20°	66,466	5ED
45	100	38,25	36	2	30	1,5	20°	71,639	5FD
50	90	24,75	23	1,5	18	1,5	21° 20'	72,169	5DC
50	100	36	34,5	4	29	2	19° 27' 30"	74,391	5ED
50	110	42,25	40	2,5	33	2	20°	78,582	5FD
55	100	30	28,5	4	24	2,5	20°	77,839	5DD
55	105	36	34,5	4	29	2,5	20° 32' 30"	78,283	5ED
55	120	45,5	43	2,5	35	2	20°	86,300	5FD
60	110	34	32	4	27	2,5	19° 30'	85,698	5DD
60	115	39	38	4	31	2,5	19° 32'	87,309	5ED
60	130	48,5	46	3	37	2,5	20°	94,200	5FD
65	115	34	32	4	27	2,5	20° 30'	89,829	5DD
65	120	39	38	4	31	2,5	20° 28'	91,214	5ED
65	140	51	48	3	39	2,5	20°	102,319	5GD
70	125	37	34,5	4	30	2,5	19° 34'	98,100	5DD
70	130	42	40	4	34	2,5	19° 11'	100,186	5ED
70	150	54	51	3	42	2,5	20°	110,219	5GD
75	130	37	34,5	4	30	2,5	20° 26'	102,199	5DD
75	135	42	40	5	34	2,5	20°	104,210	5ED
75	160	58	55	3	45	2,5	20°	117,465	5GD
80	135	37	34,5	4	30	2,5	19° 36'	108,128	5DD
80	140	42	40	5	34	3	20° 49'	108,199	5ED
80	170	61,5	58	3	48	2,5	20°	125,001	5GD
85	140	37	34,5	4	30	3	20° 24'	112,385	5DD
85	145	42	40	5	34	3	19° 16'	115,106	5ED
85	180	63,5	60	4	49	3	20°	132,736	5GD
90	145	37	34,5	4	30	3	19° 16'	118,567	5DD
90	150	42	40	5	34	3	20°	119,254	5ED
95	150	37	34,5	4	30	3	20°	122,832	5DD
95	155	42	40	5	34	3	20° 44'	123,374	5ED
100	165	37	34,5	5	30	3	20° 44'	127,221	5DD
100	160	42	40	5	34	3	19° 20'	130,033	5ED
105	160	37	34,5	5	30	3	19° 40'	133,284	5DD

TABLE 6 — Contact angle series 7

Values in millimetres and degrees

<i>d</i>	<i>D</i>	<i>T</i>	<i>B</i>	<i>r</i> _{1smin} <i>r</i> _{2smin}	<i>C</i>	<i>r</i> _{3smin} <i>r</i> _{4smin}	α	<i>E</i>	Dimension series
25	62	18,25	17	1,5	13	1,5	28° 48' 39"	44,130	7FB
30	72	20,75	19	1,5	14	1,5	28° 48' 39"	51,771	7FB
35	80	22,75	21	2	16	1,5	28° 48' 39"	58,861	7FB
40	90	25,25	23	2	17	1,5	28° 48' 39"	66,984	7FB
45	95	29	26,5	2,5	20	2,5	30°	67,061	7FC
45	100	27,25	25	2	18	1,5	28° 48' 39"	75,107	7FB
50	105	32	29	3	22	3	30°	74,245	7FC
50	110	29,25	27	2,5	19	2	28° 48' 39"	82,747	7FB
55	115	34	31	3	23,5	3	30°	81,787	7FC
55	120	31,5	29	2,5	21	2	28° 48' 39"	89,563	7FB
60	125	37	33,5	3	26	3	28° 39'	89,849	7FC
60	130	33,5	31	3	22	2,5	28° 48' 39"	98,236	7FB
65	130	37	33,5	3	26	3	30°	93,445	7FC
65	140	36	33	3	23	2,5	28° 48' 39"	106,359	7GB
70	140	39	35,5	3	27	3	30°	101,717	7FC
70	150	38	35	3	25	2,5	28° 48' 39"	113,449	7GB
75	150	42	38	3	29	3	30°	108,847	7FC
75	160	40	37	3	26	2,5	28° 48' 39"	122,122	7GB
80	160	45	41	3	31	3	30°	115,930	7FC
80	170	42,5	39	3	27	2,5	28° 48' 39"	129,213	7GB
85	170	48	45	4	33	4	28° 04' 30"	125,628	7FC
85	180	44,5	41	4	28	3	28° 48' 39"	137,403	7GB
90	175	48	45	4	33	4	29° 02' 30"	129,385	7FC
90	190	46,5	43	4	30	3	28° 48' 39"	145,527	7GB
95	180	49	45	4	33	4	30°	133,033	7FC
95	200	49,5	45	4	32	3	28° 48' 39"	151,584	7GB
100	190	52	47	4	35	4	30°	140,384	7FC
100	215	56,5	51	4	35	3	28° 48' 39"	162,739	7GB
105	200	54	49	4	37	4	30°	147,838	7FC
105	225	58	53	4	36	3	28° 48' 39"	170,724	7GB
110	210	57	51	4	39	4	28° 25'	157,271	7GC
110	240	63	57	4	38	3	28° 48' 39"	182,014	7GB
120	220	57	51	4	39	4	30°	164,848	7FC
120	260	68	62	4	42	3	28° 48' 39"	197,022	7GB
130	230	57	51	5	39	5	30°	175,117	7FC
130	280	72	66	5	44	4	28° 48' 39"	211,753	7GB
140	240	57	52	5	39	5	28° 37'	187,175	7FC
140	300	77	70	5	47	4	28° 48' 39"	227,999	7GB
150	250	57	52	5	39	5	30°	195,041	7FC
150	320	82	75	5	50	4	28° 48' 39"	244,244	7GB