

alphabetically			
Code No.	Dip tube bolts set in	Coding disk existing pins	Product
3	125	346ABC	Acetic acid (CH ₃ COOH)
63	46C	1235AB	Acetone (CH ₃ COCH ₃) Ex
5	134	256ABC	Ammonium fluoride solution (NH ₄ F)
47	56C	1234AB	Aluminium sulphate solution 2%
4	126	345ABC	Ammonium hydroxide solution (NH ₄ OH)
69	14A	2356BC	Ammonium hydroxide solution with 1% EDTA
65	25B	1346AC	B-6 positive developer
14	245	136ABC	BOE 1 (AF 500:1)
15	246	135ABC	BOE 2 (AF 9:1 und BOE 20:1)
61	45A	1236BC	BOE 3 (AF LST)
18	346	125ABC	BOE 4 (AFW) with water
62	46B	1235AC	BOE 5 (AFW LST) with water and surfactant
71	14C	2356AB	BOE 6 (AF 8:1)
44	4BC	12356A	Bulk Si-Etch BT (20-30% HNO ₃ /15-25% H ₂ SO ₄ /10-20% HF/ 10-20% H ₃ PO ₄)
64	46A	1235BC	Choline
13	236	145ABC	Chrome Etch
31	5AB	12346C	EBR 1 Ex
32	6BC	12345A	EBR 2 Ex
70	14B	2356AC	EKC 265
28	2AB	13456C	Etching mixture AWAp
41	36C	1245AB	Etching mixture PWS (H ₃ PO ₄ /HNO ₃) Ex
27	2AC	13456B	Etching mixture SEF (HNO ₃ /CH ₃ COOH/HF)
60	45C	1236AB	Etching mixture SF (HNO ₃ /HF)
8	145	236ABC	Etching mixture SPE (HNO ₃ /H ₃ PO ₄ /CH ₃ COOH)
16	256	134ABC	Etching mixture SPF (HNO ₃ /H ₃ PO ₄ /HF) and PESF (H ₃ PO ₄ /CH ₃ COOH/HNO ₃ /HF)
73	15B	2346BC	Etching mixture SLS (H ₂ SO ₄ /HNO ₃)
43	36B	1245AC	Ethylene glycol Ex
68	12C	3456AB	HMDS
6	135	246ABC	Hydrochloric acid (HCl)
11	234	156ABC	Hydrofluoric acid < 20% (HF)
12	235	146ABC	Hydrofluoric acid 20% - 60% (HF)
59	45B	1236AC	Hydrofluoric acid 61% - 75% (HF)
67	25A	1346BC	Hydrofluoric acid alcohol mixture
7	136	245ABC	Hydrogen peroxide (H ₂ O ₂ +H ₂ O)
40	13B	2456AC	IPA/Amin/DPGME Ex
24	1AC	23456B	Isopropyl alcohol (Isopropanol) Ex
1	123	456ABC	Nitric acid (HNO ₃) Reference: concentration > 30% = material PVDF for dispense head
23	1BC	23456A	NMP
39	13A	2456BC	NMP/TMAH Ex
36	3AC	12456B	NOE-Etch
21	12A	3456BC	*
22	12B	3456AC	*
48	56A	1234BC	*

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Code No.	Dip tube bolts set in	Coding disk existing pins	Product
49	56B	1234AC	*
50	23B	1456AC	*
51	23C	1456AB	*
52	23A	1456BC	*
53	35B	1246AC	*
54	35C	1246AB	*
55	35A	1246BC	*
56	26B	1345AC	*
57	26C	1345AB	*
58	26A	1345BC	*
74	15C	2346AB	*
75	16A	2345BC	*
76	16B	2345AC	*
77	16C	2345AB	*
78	24A	1356BC	*
79	24B	1356AC	*
80	24C	1356AB	*
81	34A	1256BC	*
82	34B	1256AC	*
83	34C	1256AB	*
84	ABC	123456	*
66	25C	1346AB	PGMEA Ex
10	156	234ABC	Phosphoric acid (H ₃ PO ₄)
25	1AB	23456C	Potassium dichromate solution
17	345	126ABC	Potassium hydroxide solution (KOH+H ₂ O) (Ca(OH) ₂)
20	456	123ABC	Recirculation
72	15A	2346BC	SI-Polish-Etch I (36-38% HNO ₃ / 9-13% H ₂ SO ₄ / 5-10% HF / 16-20% H ₃ PO ₄)
9	146	235ABC	Sodium hydroxide solution (NaOH)
33	6AC	12345B	SOG
42	36A	1245BC	Solvent EG-APB
37	3AB	12456C	Solvent NMP-AE
45	4AC	12356B	Spin-Etch D (35-45% HNO ₃ / 10-20% H ₂ SO ₄ /1-7% HF/ 15-25% H ₃ PO ₄)
46	4AB	12356C	Spin-Etch E (5-10% HNO ₃ / 75-85% H ₂ SO ₄ /1-5% HF%)
2	124	356ABC	Sulfuric acid (H ₂ SO ₄) Reference: concentration > 90% = material PVDF for dispense head
19	356	124ABC	TMAH 1 with tenside
29	5BC	12346A	2,38% TMAH 2 with tenside
30	5AC	12346B	TMAH 3 with tenside
34	6AB	12345C	TMAH 4 with tenside
35	3BC	12456A	2,38% TMAH 5 without tenside
38	13C	2456AB	White Spirit
26	2BC	13456A	Wright Etch (HF+HNO ₃)

Notes: In the Code list the flammable liquids are marked in orange colour. Therefor please use QC-Dispense Heads only in conductive type. 1 * If chemical fluids are used, which are not mentioned in this code list, please contact As Strömungstechnik GmbH, Germany for assignment of appropriate chemical code. phone. +49 (0) 711 220548-0 | e-mail: info@asstroemungstechnik.de

numerally			
Code No.	Dip tube bolts set in	Coding disk existing pins	Product
1	123	456ABC	Nitric acid (HNO ₃) Reference: concentration > 30% = material PVDF for dispense head
2	124	356ABC	Sulfuric acid (H ₂ SO ₄) Reference: concentration > 90% = material PVDF for dispense head
3	125	346ABC	Acetic acid (CH ₃ COOH)
4	126	345ABC	Ammonium hydroxide solution (NH ₄ OH)
5	134	256ABC	Ammonium fluoride solution (NH ₄ F)
6	135	246ABC	Hydrochloric acid (HCl)
7	136	245ABC	Hydrogen peroxide (H ₂ O ₂ +H ₂ O)
8	145	236ABC	Etching mixture SPE (HNO ₃ /H ₃ PO ₄ /CH ₃ COOH)
9	146	235ABC	Sodium hydroxide solution (NaOH)
10	156	234ABC	Phosphoric acid (H ₃ PO ₄)
11	234	156ABC	Hydrofluoric acid < 20% (HF)
12	235	146ABC	Hydrofluoric acid 20% - 60% (HF)
13	236	145ABC	Chrome Etch
14	245	136ABC	BOE 1 (AF 500:1)
15	246	135ABC	BOE 2 (AF 9:1 und BOE 20:1)
16	256	134ABC	Etching mixture SPF (HNO ₃ /H ₃ PO ₄ /HF) and PESF (H ₃ PO ₄ /CH ₃ COOH/HNO ₃ /HF)
17	345	126ABC	Potassium hydroxide solution (KOH+H ₂ O) (Ca(OH) ₂)
18	346	125ABC	BOE 4 (AFW) with water
19	356	124ABC	TMAH 1 with tenside
20	456	123ABC	Recirculation
21	12A	3456BC	*
22	12B	3456AC	*
23	1BC	23456A	NMP
24	1AC	23456B	Isopropyl alcohol (Isopropanol) Ex
25	1AB	23456C	Potassium dichromate solution
26	2BC	13456A	Wright Etch (HF+HNO ₃)
27	2AC	13456B	Etching mixture SEF (HNO ₃ /CH ₃ COOH/HF)
28	2AB	13456C	Etching mixture AWAp
29	5BC	12346A	2,38% TMAH 2 with tenside
30	5AC	12346B	TMAH 3 with tenside
31	5AB	12346C	EBR 1 Ex
32	6BC	12345A	EBR 2 Ex
33	6AC	12345B	SOG
34	6AB	12345C	TMAH 4 with tenside
35	3BC	12456A	2,38% TMAH 5 without tenside
36	3AC	12456B	NOE-Etch
37	3AB	12456C	Solvent NMP-AE
38	13C	2456AB	White Spirit
39	13A	2456BC	NMP/TMAH Ex
40	13B	2456AC	IPA/Amin/DPGME Ex
41	36C	1245AB	Etching mixture PWS (H ₃ PO ₄ /HNO ₃) Ex
42	36A	1245BC	Solvent EG-APB
43	36B	1245AC	Ethylene glycol Ex

numerally			
Code No.	Dip tube bolts set in	Coding disk existing pins	Product
44	4BC	12356A	Bulk SI-Etch BT (20-30% HNO ₃ /15-25% H ₂ SO ₄ /10-20% HF/ 10-20% H ₃ PO ₄)
45	4AC	12356B	Spin-Etch D (35-45% HNO ₃ / 10-20% H ₂ SO ₄ /1-7% HF/ 15-25% H ₃ PO ₄)
46	4AB	12356C	Spin-Etch E (5-10% HNO ₃ / 75-85% H ₂ SO ₄ /1-5% HF%)
47	56C	1234AB	Aluminium sulphate solution 2%
48	56A	1234BC	*
49	56B	1234AC	*
50	23B	1456AC	*
51	23C	1456AB	*
52	23A	1456BC	*
53	35B	1246AC	*
54	35C	1246AB	*
55	35A	1246BC	*
56	26B	1345AC	*
57	26C	1345AB	*
58	26A	1345BC	*
59	45B	1236AC	Hydrofluoric acid 61% - 75% (HF)
60	45C	1236AB	Etching mixture SF (HNO ₃ /HF)
61	45A	1236BC	BOE 3 (AF LST)
62	46B	1235AC	BOE 5 (AFW LST) with water and surfactant
63	46C	1235AB	Acetone (CH ₃ -CO-CH ₃) Ex
64	46A	1235BC	Choline
65	25B	1346AC	B-6 positive developer
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68	12C	3456AB	HMDS
69	14A	2356BC	Ammonium hydroxide solution with 1% EDTA
70	14B	2356AC	EKC 265
71	14C	2356AB	BOE 6 (AF 8:1)
72	15A	2346BC	SI-Polish-Etch I (36-38% HNO ₃ / 9-13% H ₂ SO ₄ / 5-10% HF / 16-20% H ₃ PO ₄)
73	15B	2346BC	Etching mixture SLS (H ₂ SO ₄ /HNO ₃)
74	15C	2346AB	*
75	16A	2345BC	*
76	16B	2345AC	*
77	16C	2345AB	*
78	24A	1356BC	*
79	24B	1356AC	*
80	24C	1356AB	*
81	34A	1256BC	*
82	34B	1256AC	*
83	34C	1256AB	*
84	ABC	123456	*

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