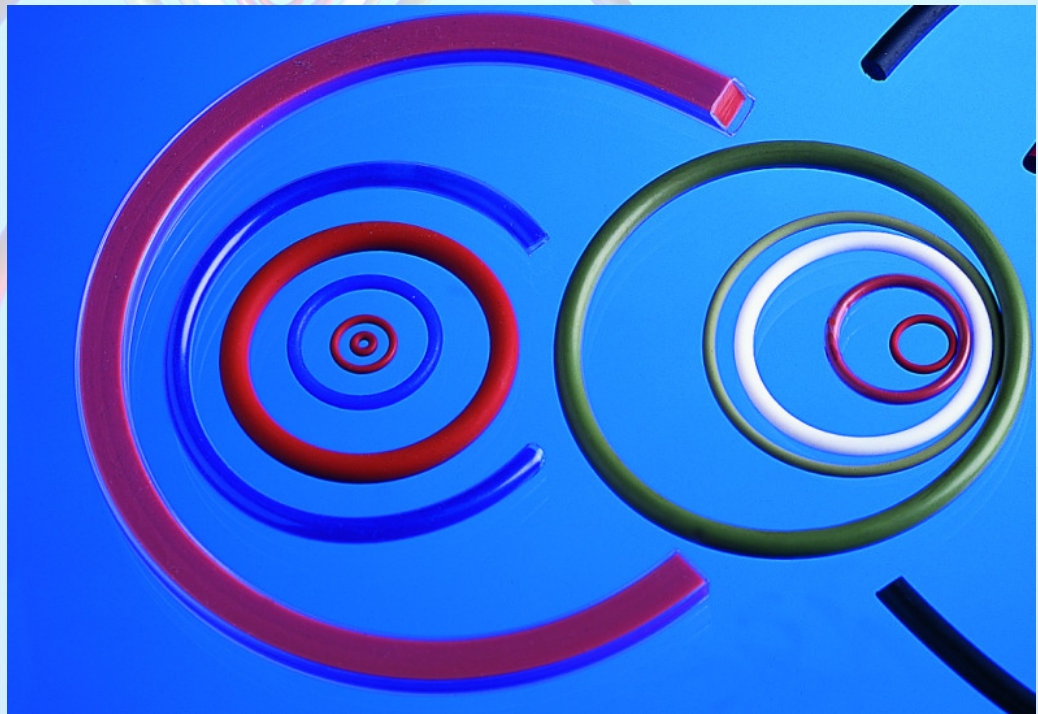
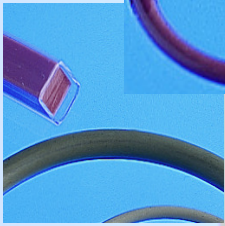
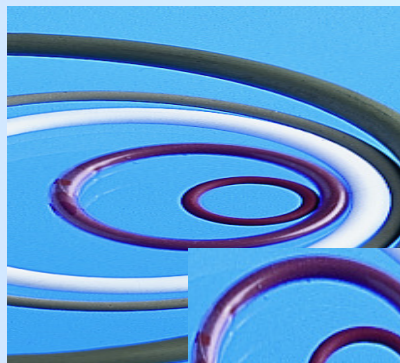




# O'Ring Sizes and Chemical Compatibility



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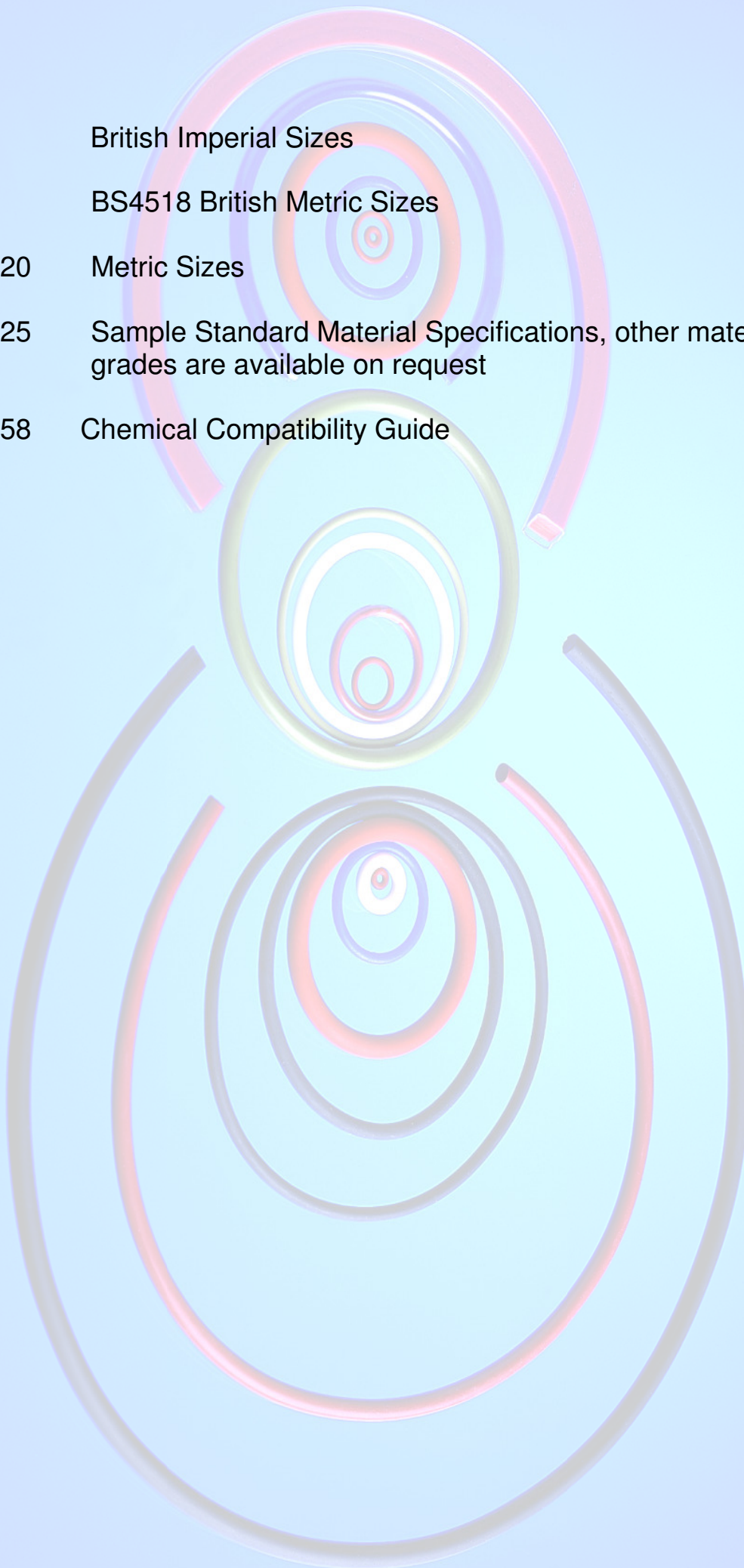
**email: [target@bovill-boyd.co.uk](mailto:target@bovill-boyd.co.uk)**

**web-site: [www.bovill-boyd.co.uk](http://www.bovill-boyd.co.uk)**



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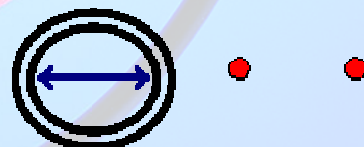


# British Imperial

Size Ref.	Actual ID		Nominal ID		To Suit Cylinder	
	ins.	mm	ins.	mm	ins.	mm
<b>.070"/1.78mm CS (NOMINAL 1/16" SECTION)</b>						
001	0.029	0.735	1/32	0.8		2.5
002	0.042	1.07	3/64	1.2	0.13	3.3
003	0.056	1.42	1/16	1.6	0.16	4.1
004	0.070	1.78	5/64	2	13/64	5
005	0.101	2.57	7/64	2.8	15/64	6
006	0.114	2.90	1/8	3	1/4	6.3
801	0.125	3.17		3.2		6.5
007	0.145	3.69	5/32	4	9/32	7
008	0.176	4.47	3/16	4.5	5/16	8
802	0.187	4.76		4.7		8.3
009	0.208	5.28	7/32	5.5	11/32	8.7
010	0.239	6.07	1/4	6	3/8	9.5
803	0.250	6.35		6.3		10
610	0.266	6.75	17/64	6.7		10.2
011	0.301	7.66	5/16	7.6	7/16	11
804	0.312	7.94		8		11.5
611	0.311	8.73	11/32	8.7	15/32	12
012	0.364	9.25	3/8	9.5	1/2	12.7
013	0.426	10.82	7/16	11	9/16	14.2
806	0.437	11.11		11		14.5
014	0.489	12.42	1/2	12.5	5/8	15.6
015	0.551	14	9/16	14	11/16	17.2
016	0.614	15.6	5/8	15.5	3/4	18.8
017	0.676	17.16	11/16	17.4	13/16	20.5
018	0.739	18.77	3/4	19	7/8	22
019	0.801	20.35	13/16	20.5	15/16	23.5
020	0.864	21.95	7/8	22	1	25.4
021	0.926	23.52	15/16	23.5	1 1/16	26.8
022	0.989	25.12	1	25	1 1/8	28.5
023	1.051	26.70	1 1/16	27	1 3/16	30
024	1.114	28.3	1 1/8	28	1 1/4	31.5
025	1.176	29.87	1 3/16	30	1 5/16	33.5
026	1.239	31.47	1 1/4	31.5	1 3/8	35
027	1.301	33.05	1 5/16	33	1 7/16	36.3
028	1.364	34.65	1 3/8	34.5	1 1/2	38
517	1.428	36.27	1 7/16	36	1 9/16	40
029	1.489	37.82	1 1/2	38	1 5/8	41
519	1.553	39.45	1 9/16	39.5	1 11/16	43
030	1.614	41	1 5/8	41	1 3/4	44.5
031	1.739	44.17	1 3/4	44	1 7/8	47
032	1.864	47.37	1 7/8	47	2	51
033	1.989	50.52	2	50	2 1/8	54
034	2.114	53.67	2 1/8	53	2 1/4	58
035	2.239	56.87	2 1/4	56.5	2 3/8	61
036	2.364	60.04	2 3/8	60	2 1/2	64
037	2.489	63.22	2 1/2	63	2 5/8	67
038	2.614	66.40	2 5/8	66	2 3/4	80
039	2.739	69.57	2 3/4	69.5	2 7/8	74

Size Ref.	Actual ID		Nominal ID		To Suit Cylinder	
	ins.	mm	ins.	mm	ins.	mm
<b>.070"/1.78mm CS (NOMINAL 1/16" SECTION)</b>						
040	2.864	72.76	2 7/8	73	3	77
041	2.989	75.94	3	76	3 1/8	80
532	3.110	79.00	3 1/8	79	3 1/4	83
042	3.239	82.28	3 1/4	82	3 3/8	86
534	3.360	85.34	3 3/8	85	3 1/2	90
043	3.489	88.64	3 1/2	88.5	3 5/8	92
536	3.610	91.70	3 5/8	91.5	3 3/4	96
044	3.739	95.00	3 3/4	95	3 7/8	99
538	3.860	98.05	3 7/8	98	4	102
045	3.989	101.34	4	101	4 1/8	105
540	4.110	104.40	4 1/8	104	4 1/4	109
046	4.239	107.70	4 1/4	107	4 3/8	112
542	4.360	110.74	4 3/8	110.5	4 1/2	115
047	4.489	114.00	4 1/2	114	4 5/8	118
544	4.610	117.10	4 5/8	116	4 3/4	121
048	4.739	120.40	4 3/4	120	4 7/8	124
546	4.860	123.44	4 7/8	123	5	127
049	4.989	126.76	5	127	5 1/8	130
548	5.095	129.40	5 1/8	130	5 1/4	133
050	5.239	133.10	5 1/4	133	5 3/8	136
550	5.345	135.76	5 3/8	136	5 1/2	140
551	5.470	138.94	5 1/2	139	5 5/8	143
552	5.595	142.11	5 5/8	142	5 3/4	146
553	5.720	145.29	5 3/4	145	5 7/8	149
554	5.845	148.46	5 7/8	148	6	152
555	5.970	151.64	6	151	6 1/8	156
556	6.095	154.81	6 1/8	155	6 1/4	160
557	6.220	158.00	6 1/4	158	6 3/8	163
558	6.345	161.16	6 3/8	161	6 1/2	166
559	6.470	164.34	6 1/2	164	6 5/8	169
560	6.595	167.51	6 5/8	167	6 3/4	172
561	6.720	170.69	6 3/4	170	6 7/8	175
562	6.845	173.87	6 7/8	174	7	179

Internal Diameter    Cross Section

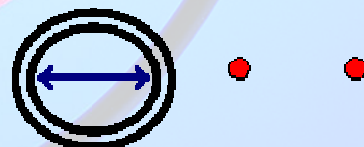


# British Imperial

Size Ref.	Actual ID		Nominal ID		To Suit Cylinder	
	ins.	mm.	ins.	mm.	ins.	mm.
<b>.103"/2.62mm CS NOMINAL 3/32" SECTION</b>						
102	0.049	1.24	1/16	1.6	1/4	6
103	0.081	2.06	3/32	2.4	9/32	7
104	0.112	2.84	1/8	3	5/16	7.6
105	0.143	3.63	5/32	4	11/32	8.7
106	0.174	4.42	3/16	4.5	3/8	9.5
107	0.206	5.23	7/32	5.5		10.2
108	0.237	6.02	1/4	6	7/16	11
109	0.299	7.60	5/16	7.6	1/2	12.7
100	0.362	9.19	3/8	9.5	9/19	14.2
613	0.391	9.92	25/64	9.9	37/64	14.6
111	0.424	10.78	7/16	11	5/8	15.6
614	0.469	11.91	15/32	11.9	21/32	16.6
112	0.487	12.37	1/2	12.5	11/16	17.2
807	0.500	12.70	1/2	12.5		17.5
615	0.516	13.10	33/64	13	45/64	17.8
113	0.549	13.95	9/18	14	3/4	18.8
616	0.594	15.08	19/32	15	25/32	19.8
114	0.612	15.54	5/8	15.5	13/16	20.5
809	0.625	15.88		15.8		21
115	0.674	17.13	11/16	17.4	7/8	22
810	0.687	17.46	11/16	17.4		22.5
617	0.703	17.86		17.8		23
116	0.737	18.72	3/4	19	15/16	23.5
117	0.799	20.29	13/16	20.5	1	25.4
812	0.812	20.64		21		26
118	0.862	21.90	7/8	22	1 1/16	26.8
813	0.875	22.23		22.5		27.5
119	0.924	23.47	15/16	23.5	1 1/8	28.5
814	0.937	23.81		23.8		29
120	0.987	25.07	1	25	1 3/16	30
121	1.049	26.65	1 1/6	27	1 1/4	31.5
122	1.112	28.250	1 1/8	28	1 5/16	33.5
123	1.174	29.830	1 3/16	30	1 3/8	35
124	1.237	31.42	1 1/4	31.5	1 7/16	36.3
125	1.299	33.00	1 5/16	33	1 1/2	38
126	1.362	34.60	1 3/8	34.5	1 9/16	40
127	1.424	36.17	1 7/16	36	1 5/8	41
128	1.487	37.77	1 1/2	38	1 11/16	43
129	1.549	39.35	1 9/16	39.5	1 3/4	44.5
130	1.612	40.95	1 5/8	41	1 13/16	46
131	1.674	42.52	1 11/16	42.5	1 7/8	47
132	1.767	44.12	1 3/4	44	1 15/16	49
133	1.799	45.70	1 13/16	45.5	2	51
134	1.862	47.30	1 7/8	47	2 1/16	53
135	1.925	48.90	1 15/16	49	2 1/8	54
136	1.987	50.47	2	50	2 3/16	56
137	2.050	52.07	2 1/16	52	2 1/4	58
138	2.112	53.65	2 1/8	53	2 5/16	59
139	2.175	55.25	2 3/16	55	2 3/8	61
140	2.237	56.82	2 1/4	56.5	2 7/16	62.5
141	2.300	58.42	2 5/16	58.5	2 1/2	64

Size Ref.	Actual ID		Nominal ID		To Suit Cylinder	
	ins.	mm.	ins.	mm.	ins.	mm.
<b>.103"/2.62mm CS NOMINAL 3/32" SECTION</b>						
142	2.362	60.00	2 3/8	60	2 9/16	66
143	2.425	61.60	2 7/16	61.5	2 5/8	67
144	2.487	63.17	2 1/2	63	2 11/16	69
145	2.550	64.77	2 9/16	65	2 3/4	70
146	2.612	66.35	2 5/8	66	2 13/16	72
147	2.675	67.95	2 11/16	68	2 7/8	74
148	2.737	69.52	2 3/4	69.5	2 15/16	75
149	2.800	71.12	2 13/16	71	3	77
150	2.862	72.70	2 7/8	73	3 1/16	78
640	2.924	74.30	2 15/16	74.5	3 1/8	80
151	2.987	75.88	3	76	3 3/16	82
641	3.049	77.50	3 1/16	77	3 1/4	83
642	3.174	80.60	3 3/16	80.5	3 3/8	86
152	3.237	82.22	3 1/4	82	3 7/16	88
643	3.299	83.80	3 5/16	84	3 1/2	90
153	3.487	88.58	3 1/2	88.5	3 11/16	94
154	3.737	94.93	3 3/4	95	3 15/16	101
155	3.987	101.28	4	101	4 3/16	107
156	4.238	107.63	4 1/4	107	4 7/16	113
157	4.487	113.98	4 1/2	114	4 11/16	120
158	4.737	120.33	4 3/4	120	4 15/16	126
159	4.987	126.67	5	127	5 3/16	132
160	5.237	133.00	5 1/4	133	5 7/16	138
161	5.487	139.38	5 1/2	139	5 11/16	145
162	5.737	145.73	5 3/4	145	5 15/16	151
163	5.987	152.07	6	151	6 3/16	158
164	6.237	158.43	6 1/4	158	6 7/16	164
165	6.487	164.78	6 1/2	164	6 11/16	170
166	6.737	171.13	6 3/4	170	6 15/16	177
167	6.987	177.48	7	177	7 3/16	183
168	7.237	183.83	7 1/4	183	7 7/16	190
169	7.487	190.18	7 1/2	190	7 11/16	196
170	7.737	196.53	7 3/4	196	7 15/16	202
171	7.987	202.88	8	202	8 3/16	209
172	8.237	209.23	8 1/4	209	8 7/16	215
173	8.487	215.58	8 1/2	215	8 11/16	222
174	8.737	221.93	8 3/4	221	8 15/16	228
175	8.987	228.28	9	228	9 3/16	234
176	9.237	234.63	9 1/4	234	9 7/16	240
177	9.487	240.98	9 1/2	240	9 11/16	247
178	9.737	247.33	9 3/4	247	9 15/16	253

Internal Diameter      Cross Section



# British Imperial

Size Ref.	Actual ID		Nominal ID		To Suit Cylinder	
	ins.	mm.	ins.	mm.	ins.	mm.
<b>.139"/ 3.53mm CS NOMINAL 1/8" SECTION</b>						
201	0.171	4.34	3/16	4.5	7/16	11
202	0.234	5.94	1/4	6	1/2	12.5
203	0.296	7.52	5/16	7.6	9/16	14
204	0.359	9.12	3/8	9.5	5/8	15.5
205	0.421	10.60	7/16	11	11/16	17.4
206	0.484	12.29	1/2	12.5	3/4	19
207	0.546	13.87	9/16	14	13/16	20.5
208	0.609	15.47	5/8	15.5	7/8	22
209	0.671	17.04	11/16	17.4	15/16	23.5
210	0.734	18.64	3/4	19	1	25.4
211	0.796	20.22	13/16	20.5	1 1/16	26.8
212	0.859	21.82	7/8	22	1 1/8	28.5
213	0.921	23.40	15/16	23.5	1 3/16	30
214	0.984	25.00	1	25	1 1/4	31.5
618	1.016	25.80	1 1/64	25.5		33
215	1.046	26.57	1 1/16	27	1 5/16	33.5
216	1.109	28.17	1 1/8	28	1 3/8	35
217	1.171	29.75	1 3/16	30	1 7/16	36.3
218	1.234	31.34	1 1/4	31.5	1 1/2	38
219	1.296	32.93	1 5/16	33	1 9/16	40
220	1.359	34.52	1 3/8	34.5	1 5/8	41
221	1.421	36.10	1 7/16	36	1 11/16	43
222	1.484	37.70	1 1/2	38	1 3/4	44.5
824	1.563	39.70	1 9/16	39.5	1 13/16	46
223	1.609	40.87	1 5/8	41	1 7/8	47
825	1.625	41.28	1 5/8	41		48.5
826	1.687	42.86	1 11/16	42.5	1 15/16	49
224	1.734	44.05	1 3/4	44	2	51
827	1.750	44.45		44.5		52
828	1.812	46.04	1 13/16	45.5	2 1/16	53
225	1.859	47.23	1 7/8	47	2 1/8	54
829	1.875	47.62		47.5		55
830	1.937	49.20	1 15/16	49	2 3/16	56
226	1.984	50.40	2	50	2 1/4	58
831	2.000	50.80		50.5		58.5
832	2.062	52.40	2 1/16	52	2 5/16	59
227	2.109	53.57	2 1/8	53	2 3/8	61
833	2.125	53.97		53.5		61.5
834	2.187	55.56	2 3/16	55	2 7/16	62.5
228	2.234	56.75	2 1/4	56.5	2 1/2	64
835	2.250	57.15		57		64.5
836	2.312	58.74	2 5/16	58.5	2 9/16	66
229	2.359	59.92	2 3/8	60	2 5/8	67
837	2.375	60.32	2 3/8	60		68
838	2.437	61.90	2 7/16	61.5	2 11/16	69
230	2.484	63.10	2 1/2	63	2 3/4	70
839	2.500	63.50		63.5		70.5
840	2.563	65.10	2 9/16	65	2 13/16	72
231	2.609	66.27	2 5/8	66	2 7/8	74
841	2.625	66.67		66.5		74.5
842	2.687	68.26	2 11/16	68	2 15/16	75
232	2.734	69.44	2 3/4	69.5	3	77
843	2.750	69.85	2 13/16	71		77.5
844	2.812	71.44		72	3 1/16	78

Size Ref.	Actual ID		Nominal ID		To Suit Cylinder	
	ins.	mm.	ins.	mm.	ins.	mm.
<b>.139"/ 3.53mm CS NOMINAL 1/8" SECTION</b>						
233	2.859	72.62	2 7/8	73	3 1/8	80
845	2.875	73.02		74		80.5
846	2.937	74.60	2 15/16	74.5	3 3/16	82
234	2.984	75.80	3	76	3 1/4	83
235	3.109	78.97	3 1/8	79	3 3/8	86
236	3.234	82.14	3 1/4	82	3 1/2	90
237	3.359	85.32	3 3/8	85	3 5/8	92
238	3.484	88.50	3 1/2	88.5	3 3/4	96
239	3.609	91.67	3 5/8	91.5	3 7/8	99
240	3.734	94.84	3 3/4	95	4	102
241	3.859	98.02	3 7/8	98	4 1/8	105
242	3.984	101.2	4	101	4 1/4	109
243	4.109	104.37	4 1/8	104	4 3/8	112
244	4.234	107.54	4 1/4	107	4 1/2	115
245	4.359	110.72	4 3/8	110.5	4 5/8	118
246	4.484	113.89	4 1/2	114	4 3/4	121
247	4.609	117.07	4 5/8	116	4 7/8	124
248	4.734	120.24	4 3/4	120	5	127
249	4.859	123.42	4 7/8	123	5 1/8	130
250	4.984	126.59	5	127	5 1/4	133
251	5.109	129.77	5 1/8	130	5 3/8	136
252	5.234	132.94	5 1/4	133	5 1/2	140
253	5.359	136.12	5 3/8	136	5 5/8	143
254	5.484	139.29	5 1/2	139	5 3/4	146
255	5.309	134.85	5 5/8	142	5 7/8	149
256	5.734	145.64	5 3/4	145	6	152
257	5.859	148.82	5 7/8	148	6 1/8	156
258	5.984	151.99	6	151	6 1/4	160
259	6.234	158.34	6 1/4	158	6 1/2	166
260	6.484	164.69	6 1/2	164	6 3/4	172
261	6.734	171.04	6 3/4	170	7	179
262	6.984	177.39	7	177	7 1/4	185
263	7.234	183.74	7 1/4	183	7 1/2	191
264	7.484	190.09	7 1/2	190	7 3/4	198
265	7.737	196.52	7 3/4	196	8	204
266	7.984	202.79	8	202	8 1/4	210
267	8.234	209.14	8 1/4	209	8 1/2	217
268	8.484	215.49	8 1/2	215	8 3/4	223
269	8.734	221.84	8 3/4	221	9	230
270	8.984	228.19	9	228	9 1/4	236
271	9.234	234.54	9 1/4	234	9 1/2	242
272	9.484	240.89	9 1/2	240	9 3/4	249
273	9.734	247.25	9 3/4	247	10	255
274	9.984	253.59	10	253	10 1/4	262
275	10.484	266.29	10 1/2	266	10 3/4	274
276	10.984	278.99	11	278	11 1/4	287
277	11.484	291.69	11 1/2	294	11 3/4	300
278	11.984	304.39	12	304	12 1/4	312
279	12.984	329.79	13	330	13 1/4	338
280	13.984	355.19	14	335	14 1/4	363
281	14.984	380.59	15	380	15 1/4	389
282	15.955	405.26	16	405	16 1/4	414
283	16.955	430.66	17	431	17 1/4	440
284	17.955	456.06	18	456	18 1/4	465

# British Imperial

Size Ref.	Actual ID		Nominal ID		To Suit Cylinder	
	ins.	mm.	ins.	mm.	ins.	mm.
<b>.210"/5.34mm CS NOMINAL 1/8" SECTION</b>						
309	0.412	10.46	7/16	11	13/16	20.5
310	0.475	12.07	1/2	12.5	7/8	22
311	0.537	13.64	9/16	14	15/16	23.5
312	0.600	15.24	5/8	15.5	1	25
313	0.662	16.81	11/16	17.4	1 1/16	27
314	0.725	18.42	3/4	19	1 1/8	28
315	0.787	19.99	13/16	20.5	1 3/16	30
316	0.850	21.59	7/8	22	1 1/4	31.5
317	0.912	23.16	15/16	23.5	1 5/16	33
318	0.975	24.77	1	25	1 3/8	34.5
319	1.037	26.34	1 1/16	27	1 7/16	36.6
320	1.100	27.94	1 1/8	28	1 1/2	38
321	1.162	29.51	1 3/16	30	1 9/16	40
322	1.225	31.12	1 1/4	31.5	1 5/8	41
323	1.287	32.69	1 5/16	33	1 11/16	43
324	1.350	34.29	1 3/8	34.5	1 3/4	44.5
325	1.475	37.47	1 1/2	38	1 7/8	47
326	1.600	40.64	1 5/8	41	2	51
327	1.725	43.82	1 3/4	44	2 1/8	54
328	1.850	46.99	1 7/8	47	2 1/4	58
329	1.975	50.17	2	50	2 3/8	61
330	2.100	53.34	2 1/8	53	2 1/2	64
331	2.225	56.52	2 1/4	56.5	2 5/8	67
332	2.350	59.69	2 3/8	60	2 3/4	70
333	2.475	62.87	2 1/2	63	2 7/8	74
334	2.600	66.04	2 5/8	66	3	77
335	2.725	69.22	2 3/4	69.5	3 1/8	80
336	2.85	72.39	2 7/8	73	3 1/4	83
619	2.938	74.63	2 15/16	74.5	3 5/16	85
337	2.975	75.57	3	76	3 3/8	86
338	3.100	78.74	3 1/8	79	3 1/2	90
620	3.141	79.78		80		91
339	3.225	81.92	3 1/4	82	3 5/8	92
340	3.350	85.09	3 3/8	85	3 3/4	96
341	3.475	88.27	3 1/2	88.5	3 7/8	99
621	3.531	89.69	3 9/16	90	3 15/16	101
342	3.600	91.44	3 5/8	91.5	4	102
343	3.725	94.62	3 3/4	95	4 1/8	105
344	3.850	97.79	3 7/8	98	4 1/4	109
622	3.937	100.00	3 15/16	100	4 5/16	111
345	3.975	100.97	4	101	4 3/8	112
346	4.100	104.14	4 1/8	104	4 1/2	115
347	4.225	107.32	4 1/4	107	4 5/8	118
623	4.312	4.31		109		109
348	4.350	110.49	4	110.5	4 3/4	121
349	4.475	113.67	4 1/2	114	4 7/8	124
350	4.600	116.84	4 5/8	116	5	127
860	4.625	117.48		117	5 1/16	129
351	4.725	120.02	4 3/4	120	5 1/8	130
861	4.750	120.65		121	5 3/16	132
352	4.850	123.19	4 7/8	123	5 1/4	133
862	4.875	123.83		124	5 5/16	135
353	4.975	126.37	5	127	5 3/8	136
863	5.000	127.00		128	5 7/16	138

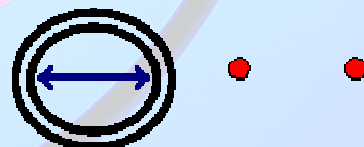
Size Ref.	Actual ID		Nominal ID		To Suit Cylinder	
	ins.	mm.	ins.	mm.	ins.	mm.
<b>.210"/5.34mm CS NOMINAL 1/8" SECTION</b>						
354	5.100	129.54	5 1/8	130	5 1/2	140
864	5.125	130.18		131		141
355	5.225	132.72	5 1/4	133	5 5/8	143
865	5.250	133.35		134		144
356	5.350	135.89	5 3/8	136	5 3/4	146
866	5.375	136.53		137		148
357	5.475	139.07	5 1/2	139	5 7/8	149
867	5.500	139.70		140	5 15/16	151
358	5.600	142.24	5 5/8	142	6	152
868	5.625	142.88		143		154
359	5.725	145.42	5 3/4	145	6 1/8	156
869	5.750	146.05		146	6 3/16	158
360	5.850	148.59	5 7/8	148	6 1/4	160
870	5.875	149.23		149		161
361	5.975	151.77	6	151	6 3/8	163
644	6.100	154.94	6 1/8	155	6 1/2	166
362	6.225	158.12	6 1/4	158	6 5/8	169
645	6.350	161.29	6 3/8	161	6 3/4	172
363	6.475	164.47	6 1/2	164	6 7/8	175
646	6.600	167.64	6 5/8	167	7	179
364	6.725	170.82	6 3/4	170	7 1/8	182
647	6.850	173.99	6 7/8	174	7 1/4	185
365	6.975	177.17	7	177	7 3/8	188
366	7.225	183.52	7 1/4	183	7 5/5	195
367	7.475	189.87	7 1/2	190	7 7/8	201
368	7.725	196.22	7 3/4	196	8 1/8	208
369	7.975	202.57	8	202	8 3/8	217
370	8.225	208.92	8 1/4	209	8 5/8	220
371	8.475	215.27	8 1/2	215	8 7/8	226
372	8.725	221.62	8 3/4	221	9 1/8	232
373	8.975	227.97	9	228	9 3/8	239
374	9.225	234.32	9 1/4	234	9 5/8	245
375	9.475	240.67	9 1/2	240	9 7/8	252
376	9.725	247.02	9 3/4	247	10 1/8	258
377	9.975	253.37	10	253	10 3/8	265
378	10.475	266.07	10 1/2	266	10 7/8	277
379	10.975	278.77	11	278	11 3/8	290
380	11.475	291.47	11 1/2	291	11 7/8	303
381	11.975	304.17	12	304	12 3/8	315
382	12.975	329.57	13	330	13 3/8	341
383	13.975	354.97	14	355	14 3/8	366
384	14.975	380.37	15	380	15 3/8	392
385	15.955	405.26	16	405	16 3/8	417
386	16.955	430.66	17	431	17 3/8	443
387	17.955	456.06	18	456	18 3/8	468
388	18.955	481.46	19	482	19 3/8	494
389	19.955	506.86	20	507	20 3/8	519
390	20.955	532.26	21	532	21 3/8	544
391	21.955	557.66	22	558	22 3/8	570
392	22.940	582.68	23	583	23 3/8	595
393	23.940	608.08	24	608	24 3/8	620
394	24.940	633.48	25	634	25 3/8	646
395	25.940	658.88	26	664	26 3/8	671

# British Imperial

Size Ref.	Actual ID		Nominal ID		To Suit Cylinder	
	ins.	mm.	ins.	mm.	ins.	mm.
<b>.275"/6.99mm CS NOMINAL 1/4" SECTION</b>						
425	4.475	113.67	4 1/2	114	5	127
624	4.516	114.71	4 9/16	115	5 1/16	129
426	4.600	116.84	4 5/8	116	5 1/8	130
427	4.725	120.02	4 3/4	120	5 1/4	133
428	4.850	123.19	4 7/8	123	5 3/8	136
625	4.906	124.61		124		139
429	4.975	126.37	5	127	5 1/2	140
430	5.1	129.54	5 1/8	130	5 5/8	143
431	5.225	132.72	5 1/4	133	5 3/4	146
626	5.297	134.54		134	5 13/16	148
432	5.350	135.89	5 3/8	136	5 7/8	149
433	5.475	139.07	5 1/2	139	6	152
434	5.600	142.24	5 5/8	142	6 1/8	156
435	5.725	145.42	5 3/4	145	6 1/4	160
436	5.850	148.59	5	148	6 3/8	163
437	5.975	151.77	6	151	6 1/2	166
872	6.125	155.58	6 1/8	155	6 5/8	169
438	6.225	158.12	6 1/4	158	6 3/4	172
627	6.281	159.54		159	6 13/16	174
874	6.375	161.93	6 3/8	161		176
439	6.475	164.47	6 1/2	164	7	179
628	6.563	166.70	6 9/16	166	7 1/16	181
876	6.625	168.28	6 5/8	167	7 1/8	182
440	6.725	170.82	6 3/4	170	7 1/4	185
878	6.725	170.82	6 7/8	174	7 7/16	190
441	6.975	177.17	7	177	7 1/2	191
880	7.125	180.98	7 1/8	180	7 5/8	195
442	7.225	183.52	7 1/4	183	7 3/4	198
882	7.375	187.33	7 3/8	187	7 7/8	201
443	7.475	189.87	7 1/2	190	8	204
884	7.625	193.68	7 5/8	193	8 1/8	208
444	7.725	196.22	7 3/4	196	8 1/4	210
886	7.875	200.03	7 7/8	199	8 3/8	214
445	7.975	202.57	8	202	8 1/2	217
674	8.225	208.92	8 1/4	209	8 3/4	223
446	8.475	215.27	8 1/2	215	9	230
676	8.725	221.62	8 3/4	221	9 1/4	236
447	8.975	227.97	9	228	9 1/2	242
678	9.225	234.32	9 1/4	234	9 3/4	249
448	9.475	240.67	9 1/2	240	10	255
680	9.725	247.02	9 3/4	247	10 1/4	262
449	9.975	253.37	10	253	10 1/2	268
682	10.225	259.72	10 1/4	260	10 3/4	274
450	10.475	266.07	10 1/2	266	11	280
684	10.725	272.42	10 3/4	273	11 1/4	287
451	10.975	278.77	11	278	11 1/2	293
686	11.225	285.12	11 1/4	285	11 3/4	300
452	11.475	291.47	11 1/2	291	12	306
688	11.725	297.82	11 3/4	298	12 1/4	312
453	11.975	304.17	12	304	12 1/2	319
648	12.225	310.52	12 1/4	311	12 3/4	325
454	12.475	316.87	12 1/2	317	13	331
649	12.725	323.22	12 3/4	323	13 1/4	338
455	12.975	329.57	13	330	13 1/2	344

Size Ref.	Actual ID		Nominal ID		To Suit Cylinder	
	ins.	mm.	ins.	mm.	ins.	mm.
<b>.275"/6.99mm CS NOMINAL 1/4" SECTION</b>						
650	13.225	335.92	13 1/4	336	13 3/4	350
456	13.475	342.27	13 1/2	342	14	357
457	13.975	354.97	14	355	14 1/2	370
458	14.475	367.67	14 1/2	368	15	382
459	14.975	380.37	15	380	15 1/2	395
460	15.475	393.07	15 1/2	393	16	408
461	15.955	405.26	16	405	16 1/2	420
462	16.455	417.96	16 1/2	418	17	432
463	16.955	430.66	17	431	17 1/2	445
464	17.455	443.36	17 1/2	443	18	458
465	17.955	456.06	18	456	18 1/2	471
466	18.455	468.76	18 1/2	469	19	483
467	18.955	481.46	19	482	19 1/2	496
468	19.455	494.16	19 1/2	494	20	509
469	19.955	506.86	20	507	20 1/2	521
470	20.955	532.26	21	532	21 1/2	547
471	21.955	557.66	22	558	22 1/2	573
472	22.940	582.68	23	583	23 1/2	598
473	23.940	608.08	24	608	24 1/2	624
474	24.940	633.48	25	634	25 1/2	649
475	25.940	658.88	26	660	26 1/2	675

Internal Diameter Cross Section



# BS 4518 British Metrics

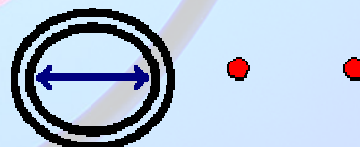
BS 4518 Ref.	B&B Ref.	ID	ID TOL. +/-	CS
0031-16	202-505	3.1	0.15	1.6mm +/- 0.08
0041-16	202-506	4.1		
0051-16	202-507	5.1		
0061-16	202-508	6.1		
0071-16	202-509	7.1		
0081-16	202-510	8.1		
0091-16	202-511	9.1		
0101-16	202-512	10.1	0.2	1.6mm +/- 0.08
0111-16	202-513	11.1		
0121-16	202-514	12.1		
0131-16	202-515	13.1		
0141-16	202-516	14.1		
0151-16	202-517	15.1		
0161-16	202-518	16.1		
0171-16	202-519	17.1	0.25	1.6mm +/- 0.08
0181-16	202-520	18.1		
0191-16	202-521	19.1		
0221-16	202-524	22.1		
0251-16	202-525	25.1		
0271-16	202-526	27.1		
0291-19	202-527	29.1		
0321-16	202-528	32.1	0.3	1.6mm +/- 0.08
0351-16	202-529	35.1		
0371-16	202-530	37.1		

BS 4518 Ref.	B&B Ref.	ID	ID TOL. +/-	CS
0446-24	202-656	44.6	0.3	2.4mm +/- 0.8mm
0476-24	202-657	47.6		
0496-24	202-658	49.6		
0516-24	202-659	51.6	0.4	
0546-24	202-660	54.6		
0576-24	202-661	57.6		
0596-24	202-662	59.6		
0616-24	202-663	61.6		
0646-24	202-664	64.6		
0676-24	202-665	67.6		
0696-24	202-666	69.6		

0195-30	202-771	19.5	0.25	3mm +/- 0.1mm
0215-30	202-772	21.5		
0225-30	202-773	22.5		
0245-30	202-774	24.5		
0255-30	202-775	25.5		
0265-30	202-776	26.5		
0275-30	202-777	27.5		
0295-30	202-778	29.5	0.3	
0315-30	202-779	31.5		
0325-30	202-780	32.5		
0345-30	202-781	34.5		
0355-30	202-782	35.5		
0365-30	202-783	36.5		
0375-30	202-784	37.5		
0395-30	202-785	39.5	0.4	
0415-30	202-786	41.5		
0425-30	202-787	42.5		
0445-30	202-788	44.5		
0495-30	202-729	49.5		
0545-30	202-731	54.5		
0595-30	202-735	59.5		
0645-30	202-738	64.5	0.5	
0695-30	202-739	69.5		
0745-30	202-740	74.5		
0795-30	202-741	79.5		
0845-30	202-742	84.5		
0895-30	202-743	89.5		
0945-30	202-744	94.5		
0995-30	202-745	99.5	0.5	
1045-30	202-746	104.5		
1095-30	202-747	109.5		
1145-30	202-748	114.5		
1195-30	202-749	119.5		

0036-24	202-630	3.6	0.15	2.4mm +/- 0.8mm
0046-24	202-631	4.6		
0056-24	202-632	5.6		
0066-24	202-633	6.6		
0076-24	202-634	7.6		
0086-24	202-635	8.6		
0096-24	202-636	9.6		
0106-24	202-637	10.6	0.2	
0116-24	202-638	11.6		
0126-24	202-639	12.6		
0136-24	202-640	13.6		
0146-24	202-641	14.6		
0156-24	202-642	15.6		
0166-24	202-643	16.6		
0176-24	202-644	17.6	0.25	
0186-24	202-645	18.6		
0196-24	202-646	19.6		
0216-24	202-647	21.6		
0246-24	202-648	24.6		
0276-24	202-649	27.6		
0296-24	202-650	29.6		
0316-24	202-651	31.6	0.3	
0346-24	202-652	34.6		
0376-24	202-653	37.6		
0396-24	202-654	39.6		
0416-24	202-655	41.6		

Internal Diameter    Cross Section





# BS 4518 British Metrics

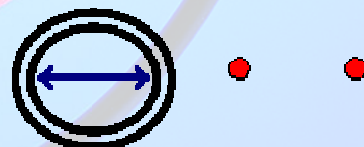
BS 4518 Ref.	B&B Ref.	ID	ID TOL. +/-	CS
1245-30	202-750	124.5	0.6	3mm +/- 0.1mm
1295-30	202-751	129.5		
1345-30	202-752	134.5		
1395-30	202-753	139.5		
1445-30	202-754	144.5		
1545-30	202-756	154.5		
1595-30	202-757	159.5		
1645-30	202-758	164.5		
1695-30	202-759	169.5		
1745-30	202-760	174.5		
1795-30	202-761	179.5		
1845-30	202-762	184.5	0.8	5.7mm +/- 0.12mm
1895-30	202-763	189.5		
1945-30	202-764	194.5		
1995-30	202-765	199.5		
2045-30	202-766	204.5		
2195-30	202-767	219.5		
2295-30	202-768	229.5		
2395-30	202-769	239.5		
2495-30	202-770	249.5		

BS 4518 Ref.	B&B Ref.	ID	ID TOL. +/-	CS	
1793-57	202-853	179.3	0.8	5.7mm +/- 0.12mm	
1843-57	202-854	184.3			
1893-57	202-855	189.3			
1943-57	202-856	194.3			
1993-57	202-857	199.3			
2093-57	202-859	209.3			
2193-57	202-860	219.3			
2293-57	202-861	229.3			
2393-57	202-862	239.3			
2493-57	202-863	249.3			
2593-57	202-864	259.3	1	5.7mm +/- 0.12mm	
2693-57	202-865	269.3			
2793-57	202-866	279.3			
2893-57	202-867	289.3			
2993-57	202-868	299.3			
3193-57	202-869	319.3	1.5		5.7mm +/- 0.12mm
3393-57	202-870	339.3			
3593-57	202-871	359.3			
3793-57	202-872	379.3			
3993-57	202-873	399.3			
4193-57	202-874	419.3	2	5.7mm +/- 0.12mm	
4393-57	202-875	439.3			
4593-57	202-876	459.3			
4793-57	202-877	479.3			
4993-57	202-878	499.3			

0443-57	202-810	44.5	0.3	5.7mm +/- 0.12mm	
0453-57	202-811	45.3			
0493-57	202-813	49.3			
0523-57	202-815	52.3	0.4		5.7mm +/- 0.12mm
0543-57	202-816	54.3			
0553-57	202-879	55.3			
0593-57	202-818	59.3			
0623-57	202-820	62.3			
0643-57	202-821	64.3			
0693-57	202-823	69.3			
0743-57	202-826	74.3			
0793-57	202-828	79.3			
0843-57	202-831	84.3	0.5	5.7mm +/- 0.12mm	
0893-57	202-833	89.3			
0943-57	202-835	94.3			
0993-57	202-837	99.3			
1043-57	202-838	104.3			
1093-57	202-839	109.3			
1143-57	202-840	114.3			
1193-57	202-841	119.3			
1243-57	202-842	124.3	0.6		5.7mm +/- 0.12mm
1293-57	202-843	129.3			
1343-57	202-844	134.3			
1393-57	202-845	139.3			
1443-57	202-846	144.3			
1493-57	202-847	149.3			
1543-57	202-848	154.3			
1593-57	202-849	159.3			
1643-57	202-850	164.3			
1693-57	202-851	169.3			
1743-57	202-852	174.3			

1441-84	202-905	144.1	0.6	8.4mm +/- 0.15mm		
1491-84	202-906	149.1				
1541-84	202-907	154.1				
1591-84	202-908	159.1				
1641-84	202-909	164.1				
1691-84	202-910	169.1				
1741-84	202-911	174.1				
1791-84	202-912	179.1				
1841-84	202-913	184.1			0.8	8.4mm +/- 0.15mm
1891-84	202-914	189.1				
1941-84	202-915	194.1				
1991-84	202-916	199.1				
2041-84	202-922	204.1				
2091-84	202-917	209.1				
2191-84	202-918	219.1				
2291-84	202-919	229.1				
2341-84	202-923	234.1				
2391-84	202-920	239.1				
2491-84	202-921	249.1				

Internal Diameter    Cross Section



# Metrics

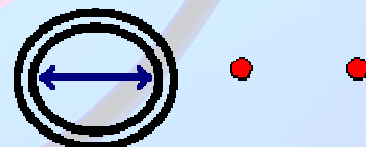
Size Ref.	ID	ID TOL. +/-	
<b>1.5mm CS +/- 0.08mm</b>			
206-003	3	0.3	
206-004	4		
206-005	5		
206-006	6		
206-007	7		
206-008	8		
206-009	9		
206-010	10		
206-011	11		
206-012	12		
206-013	13		
206-014	14		
206-015	15		
206-016	16		
206-017	17		
206-018	18		
206-019	19		0.4
206-020	20		
206-021	21		
206-022	22		
206-023	23		
206-024	24		
206-025	25		
206-026	26		
206-027	27		
206-028	28		
206-029	29	0.5	
206-030	30		
206-031	31		
206-032	32		
206-033	33		
206-034	34		
206-035	35		
206-036	36		
206-037	37		
206-038	38		
206-039	39		
206-040	40		
206-041	41		
206-042	42		
206-043	43		
206-044	44		
206-045	45		
206-046	46		
206-047	47		
206-048	48		
206-049	49		
206-050	50		
206-051	51	0.6	
206-052	52		
206-053	53		
206-054	54		
206-055	55		
206-056	56		
206-057	57		
206-058	58		
206-059	59		
206-060	60		
206-061	61		
206-062	62		
206-063	63		
206-064	64		
206-065	65		

Size Ref.	ID	ID TOL. +/-
<b>1.5mm CS +/- 0.08mm</b>		
206-066	66	0.6
206-067	67	
206-068	68	
206-069	69	
206-070	70	
206-071	71	
206-072	72	
206-073	73	
206-074	74	
206-075	75	
206-076	76	
206-077	77	
206-078	78	
206-079	79	
206-080	80	
206-081	81	0.8
206-082	82	
206-083	83	
206-084	84	
206-085	85	
206-086	86	
206-087	87	
206-088	88	
206-089	89	
206-090	90	
206-091	91	0.3
206-092	92	
206-093	93	
206-094	94	
206-095	95	
206-096	96	
206-097	97	
206-098	98	
206-099	99	
206-100	100	

Size Ref.	ID	ID TOL. +/-
<b>2mm CS +/- 0.08</b>		
204-003	3	0.3
204-004	4	
204-005	5	
204-006	6	
204-007	7	
204-008	8	
204-009	9	
204-010	10	
204-011	11	
204-012	12	
204-013	13	
204-014	14	
204-015	15	
204-016	16	
204-017	17	
204-018	18	
204-019	19	0.4
204-020	20	
204-021	21	
204-022	22	
204-023	23	
204-024	24	
204-025	25	
204-026	26	
204-027	27	
204-028	28	

Size Ref.	ID	ID TOL. +/-
<b>2mm CS +/- 0.08</b>		
204-029	29	0.4
204-030	30	
204-031	31	0.5
204-032	32	
204-033	33	
204-034	34	
204-035	35	
204-036	36	
204-037	37	
204-038	38	
204-039	39	
204-040	40	
204-041	41	0.6
204-042	42	
204-043	43	
204-044	44	
204-045	45	
204-046	46	
204-047	47	
204-048	48	
204-049	49	
204-050	50	
204-051	51	0.6
204-052	52	
204-053	53	
204-054	54	
204-055	55	
204-056	56	
204-057	57	
204-058	58	
204-059	59	
204-060	60	
204-061	61	
204-062	62	
204-063	63	
204-064	64	
204-065	65	
204-066	66	
204-067	67	
204-068	68	
204-069	69	
204-070	70	
204-071	71	
204-072	72	
204-073	73	
204-074	74	
204-075	75	
204-076	76	
204-077	77	
204-078	78	
204-079	79	
204-080	80	

Internal Diameter    Cross Section



# Metrics

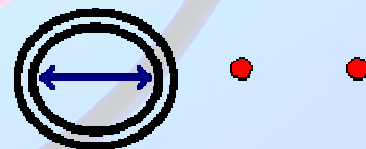
Size Ref.	ID	ID TOL. +/-
<b>2mm CS +/- 0.08</b>		
204-081	81	0.8
204-082	82	
204-083	83	
204-084	84	
204-085	85	
204-086	86	
204-087	87	
204-088	88	
204-089	89	
204-090	90	
204-091	91	
204-092	92	
204-093	93	
204-094	94	
204-095	95	
204-096	96	
204-097	97	
204-098	98	
204-099	99	
204-100	100	

<b>Cross Section 2,5 +/- 0.08</b>			
206-104	4	0.3	
206-105	5		
206-106	6		
206-107	7		
206-108	8		
206-109	9		
206-110	10		
206-111	11		
206-112	12		
206-113	13		
206-114	14		
206-115	15		
206-116	16		
206-117	17		
206-118	18		
206-119	19	0.4	
206-120	20		
206-121	21		
206-122	22		
206-123	23		
206-124	24		
206-125	25		
206-126	26		
206-127	27		
206-128	28		
206-129	29		
206-130	30		
206-131	31		0.5
206-132	32		
206-133	33		
206-134	34		
206-135	35		
206-136	36		
206-137	37		
206-138	38		
206-139	39		
206-140	40		
206-141	41		
206-142	42		
206-143	43		

Size Ref.	ID	ID TOL. +/-	
<b>2.5mm CS +/- 0.08</b>			
206-144	44	0.5	
206-145	45		
206-146	46		
206-147	47		
206-148	48		
206-149	49		
206-150	50		
206-151	51		0.6
206-152	52		
206-153	53		
206-154	54		
206-155	55		
206-156	56		
206-157	57		
206-158	58		
206-159	59		
206-160	60		
206-161	61	0.8	
206-162	62		
206-163	63		
206-164	64		
206-165	65		
206-166	66		
206-167	67		
206-168	68		
206-169	69		
206-170	70		
206-171	71		
206-172	72		
206-173	73		
206-174	74		
206-175	75		
206-176	76		
206-177	77		
206-178	78		
206-179	79		
206-180	80		
206-181	81	0.8	
206-182	82		
206-183	83		
206-184	84		
206-185	85		
206-186	86		
206-187	87		
206-188	88		
206-189	89		
206-190	90		
206-191	91		
206-192	92		
206-193	93		
206-194	94		
206-195	95		
206-196	96		
206-197	97		
206-198	98		
206-199	99		
206-200	100		
206-201	101		
206-202	102		
206-203	103		
206-204	104		
206-205	105		

Size Ref.	ID	ID TOL. +/-
<b>2.5mm CS +/- 0.08</b>		
206-206	106	0.8
206-207	107	
206-208	108	
206-209	109	
206-210	110	
206-211	111	
206-212	112	
206-213	113	
206-214	114	
206-215	115	
206-216	116	
206-217	117	
206-218	118	
206-219	119	
206-220	120	1
206-221	121	
206-222	122	
206-223	123	
206-224	124	
206-225	125	
206-226	126	
206-227	127	
206-228	128	
206-229	129	
206-230	130	
206-231	131	
206-232	132	
206-233	133	
206-234	134	
206-235	135	
206-236	136	
206-237	137	
206-238	138	
206-239	139	
206-240	140	
206-241	141	
206-242	142	
206-243	143	
206-244	144	
206-245	145	
206-246	146	
206-247	147	
206-248	148	
206-249	149	
206-250	150	

Internal Diameter    Cross Section



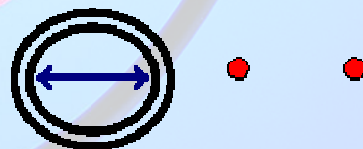
# Metrics

Size Ref.	ID	ID TOL. +/-	
<b>3mm CS +/- 0.1</b>			
206-303	3	0.3	
206-304	4		
206-305	5		
206-306	6		
206-307	7		
206-308	8		
206-309	9		
206-310	10		
206-311	11		
206-312	12		
206-313	13		
206-314	14		
206-315	15		
206-316	16		
206-317	17		
206-318	18		
206-319	19		0.4
206-320	20		
206-321	21		
206-322	22		
206-323	23		
206-324	24		
206-325	25		
206-326	26		
206-327	27		
206-328	28		
206-329	29		
206-330	30		
206-331	31	0.5	
206-332	32		
206-333	33		
206-334	34		
206-335	35		
206-336	36		
206-337	37		
206-338	38		
206-339	39		
206-340	40		
206-341	41		
206-342	42		
206-343	43		
206-344	44		
206-345	45		
206-346	46		
206-347	47		
206-348	48		
206-349	49		
206-350	50		
206-351	51	0.6	
206-352	52		
206-353	53		
206-354	54		
206-355	55		
206-356	56		
206-357	57		
206-358	58		
206-359	59		
206-360	60		
206-361	61		
206-362	62		
206-363	63		
206-364	64		

Size Ref.	ID	ID TOL. +/-
<b>3mm CS +/- 0.1</b>		
206-365	65	0.6
206-366	66	
206-367	67	
206-368	68	
206-369	69	
206-370	70	
206-371	71	
206-372	72	
206-373	73	
206-374	74	
206-375	75	
206-376	76	
206-377	77	
206-378	78	
206-379	79	
206-380	80	
206-381	81	0.8
206-382	82	
206-383	83	
206-384	84	
206-385	85	
206-386	86	
206-387	87	
206-388	88	
206-389	89	
206-390	90	
206-391	91	
206-392	92	
206-393	93	
206-394	94	
206-395	95	
206-396	96	
206-397	97	
206-398	98	
206-399	99	
206-400	100	
206-401	101	
206-402	102	
206-403	103	
206-404	104	
206-405	105	
206-406	106	
206-407	107	
206-408	108	
206-409	109	
206-410	110	
206-411	111	
206-412	112	
206-413	113	
206-414	114	
206-415	115	
206-416	116	
206-417	117	
206-418	118	
206-419	119	
206-420	120	
206-421	121	1
206-422	122	
206-423	123	
206-424	124	
206-425	125	
206-426	126	

Size Ref.	ID	ID TOL. +/-
<b>3mm CS +/- 0.1</b>		
206-427	127	1
206-428	128	
206-429	129	
206-430	130	
206-431	131	
206-432	132	
206-433	133	
206-434	134	
206-435	135	
206-436	136	
206-437	137	
206-438	138	
206-439	139	
206-440	140	
206-441	141	
206-442	142	
206-443	143	
206-444	144	
206-445	145	
206-446	146	
206-447	147	
206-448	148	
206-449	149	
206-450	150	
206-451	151	
206-452	152	
206-453	153	
206-454	154	
206-455	155	
206-456	156	
206-457	157	
206-458	158	
206-459	159	
206-460	160	
206-461	161	1
206-462	162	
206-463	163	
206-464	164	
206-465	165	
206-466	166	
206-467	167	
206-468	168	
206-469	169	
206-470	170	
206-471	171	
206-472	172	
206-473	173	
206-474	174	
206-475	175	
206-476	176	
206-477	177	
206-478	178	
206-479	179	
206-480	180	

**Internal Diameter**    **Cross Section**



# Metrics

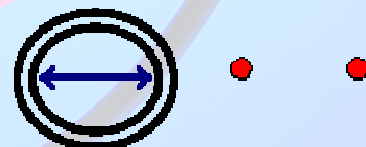
Size Ref.	ID	ID TOL. +/-
<b>3mm CS +/- 0.1</b>		
206-481	181	1.3
206-482	182	
206-483	183	
206-484	184	
206-485	185	
206-486	186	
206-487	187	
206-488	188	
206-489	189	
206-490	190	
206-491	191	
206-492	192	
206-493	193	
206-494	194	
206-495	195	
206-496	196	
206-497	197	
206-498	198	
206-499	199	
206-500	200	
206-501	201	
206-502	202	
206-503	203	
206-504	204	
206-505	205	
206-506	206	
206-507	207	
206-508	208	
206-509	209	
206-510	210	
206-511	211	
206-512	212	
206-513	213	
206-514	214	
206-515	215	
206-516	216	
206-517	217	
206-518	218	
206-519	219	
206-520	220	
206-521	221	
206-522	222	
206-523	223	
206-524	224	
206-525	225	
206-526	226	
206-541	241	
206-542	242	
206-543	243	
206-544	244	
206-545	245	
206-546	246	
206-547	247	
206-548	248	
206-549	249	
206-550	250	

<b>3.5mm CS +/- 0.1</b>		
206-558	8	0.3
206-559	9	
206-560	10	
206-561	11	

Size Ref.	ID	ID TOL. +/-
<b>3.5mm CS +/- 0.1</b>		
206-562	12	0.3
206-563	13	
206-564	14	
206-565	15	
206-566	16	
206-567	17	
206-568	18	
206-569	19	0.4
206-570	20	
206-571	21	
206-572	22	
206-573	23	
206-574	24	
206-575	25	
206-576	26	
206-577	27	
206-578	28	
206-579	29	
206-580	30	
206-581	31	0.5
206-582	32	
206-583	33	
206-584	34	
206-585	35	
206-586	36	
206-587	37	
206-588	38	
206-589	39	
206-590	40	
206-591	41	
206-592	42	
206-593	43	
206-594	44	
206-595	45	
206-596	46	
206-597	47	
206-598	48	
206-599	49	
206-600	50	
206-601	51	0.6
206-602	52	
206-603	53	
206-604	54	
206-605	55	
206-606	56	
206-607	57	
206-608	58	
206-609	59	
206-610	60	
206-611	61	
206-612	62	
206-613	63	
206-614	64	
206-615	65	
206-616	66	
206-617	67	
206-618	68	
206-619	69	
206-620	70	
206-621	71	
206-622	72	
206-623	73	

Size Ref.	ID	ID TOL. +/-	
<b>3.5mm CS +/- 0.1</b>			
206-624	74	0.6	
206-625	75		
206-626	76		
206-627	77		
206-628	78		
206-629	79		
206-630	80		
206-631	81		0.8
206-632	82		
206-633	83		
206-634	84		
206-635	85		
206-636	86		
206-637	87		
206-638	88		
206-639	89		
206-640	90		
206-641	91		
206-642	92		
206-643	93		
206-644	94		
206-645	95		
206-646	96		
206-647	97		
206-648	98		
206-649	99		
206-650	100		
206-651	101		
206-652	102		
206-653	103		
206-654	104		
206-655	105		
206-656	106		
206-657	107		
206-658	108		
206-659	109		
206-660	110		
206-661	111		
206-662	112		
206-663	113		
206-664	114		
206-665	115		
206-666	116		
206-667	117		
206-668	118		
206-669	119		
206-670	120		

**Internal Diameter**    **Cross Section**



# Metrics

Size Ref.	ID	ID TOL. +/-
<b>3.5mm CS +/- 0.1</b>		
206-671	121	
206-672	122	
206-673	123	
206-674	124	
206-675	125	
206-676	126	
206-677	127	
206-678	128	
206-679	129	
206-680	130	
206-681	131	
206-682	132	
206-683	133	
206-684	134	
206-685	135	
206-686	136	
206-687	137	
206-688	138	
206-689	139	
206-690	140	
206-691	141	
206-692	142	
206-693	143	
206-694	144	
206-695	145	
206-696	146	
206-697	147	
206-698	148	
206-699	149	
206-700	150	
206-701	151	
206-702	152	
206-703	153	
206-704	154	
206-705	155	
206-706	156	
206-707	157	
206-708	158	
206-709	159	
206-710	160	
206-711	161	
206-712	162	
206-713	163	
206-714	164	
206-715	165	
206-716	166	
206-717	167	
206-718	168	
206-719	169	
206-720	170	
206-721	171	
206-722	172	
206-723	173	
206-724	174	
206-725	175	
206-726	176	

Size Ref.	ID	ID TOL. +/-
<b>3.5mm CS +/- 0.1</b>		
206-727	177	1
206-728	178	
206-729	179	
206-730	180	
206-731	181	
206-732	182	
206-733	183	
206-734	184	
206-735	185	
206-736	186	
206-737	187	
206-738	188	
206-739	189	
206-740	190	
206-741	191	
206-742	192	
206-743	193	
206-744	194	
206-745	195	
206-746	196	
206-747	197	
206-748	198	
206-749	199	
206-750	200	
206-751	201	
206-752	202	
206-753	203	
206-754	204	
206-755	205	1.3
206-756	206	
206-757	207	
206-758	208	
206-759	209	
206-760	210	
206-761	211	
206-762	212	
206-763	213	
206-764	214	
206-765	215	
206-766	216	
206-767	217	
206-768	218	
206-769	219	
206-770	220	
206-771	221	
206-772	222	
206-773	223	
206-774	224	
206-775	225	
206-776	226	
206-777	227	
206-778	228	
206-779	229	
206-780	230	
206-781	231	
206-782	232	

Size Ref.	ID	ID TOL. +/-
<b>3.5mm CS +/- 0.1</b>		
206-783	233	
206-784	234	
206-785	235	
206-786	236	
206-787	237	
206-788	238	
206-789	239	
206-790	240	
206-791	241	
206-792	242	1.3
206-793	243	
206-794	244	
206-795	245	
206-796	246	
206-797	247	
206-798	248	
206-799	249	
206-800	250	
206-801	251	
206-802	252	
206-803	253	
206-804	254	
206-805	255	
206-806	256	
206-807	257	
206-808	258	
206-809	259	
206-810	260	
206-811	261	
206-812	262	
206-813	263	
206-814	264	
206-815	265	
206-816	266	
206-817	267	
206-818	268	
206-819	269	
206-820	270	1.5
206-821	271	
206-822	272	
206-823	273	
206-824	274	
206-825	275	
206-826	276	
206-827	277	
206-828	278	
206-829	279	
206-830	280	
206-831	281	
206-832	282	
206-833	283	
206-834	284	
206-835	285	
206-836	286	
206-837	287	
206-838	288	

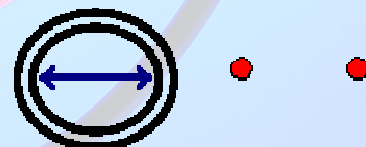
# Metrics

Size Ref.	ID	ID TOL. +/-	
<b>3.5mm CS +/- 0.1</b>			
206-839	289	1.5	
206-840	290		
206-841	291		
206-842	292		
206-843	293		
206-844	294		
206-845	295		
206-846	296		
206-847	297		
206-848	298		
206-849	299		
206-850	300		
206-851	301		1.6
206-852	302		
206-853	303		
206-854	304		
206-855	305		
206-856	306		
206-857	307		
206-858	308		
206-859	309		
206-860	310		
206-861	311		
206-862	312		
206-863	313		
206-864	314		
206-865	315		
206-866	316		
206-867	317		
206-868	318		
206-869	319		
206-870	320		
206-871	321		
206-872	322		
206-873	323		
206-874	324		
206-875	325		
206-876	326	1.7	
206-877	327		
206-878	328		
206-879	329		
206-880	330		
206-881	331		
206-882	332		
206-883	333		
206-884	334		
206-885	335		
206-886	336		
206-887	337		
206-888	338		
206-889	339		
206-890	340		
206-891	341		
206-892	342		
206-893	343		
206-894	344		
206-895	345		
206-896	346		
206-897	347		
206-898	348		

Size Ref.	ID	ID TOL. +/-
<b>3.5mm CS +/- 0.1</b>		
206-899	349	1.7
206-900	350	
206-901	351	1.8
206-902	352	
206-903	353	
206-904	354	
206-905	355	
206-906	356	
206-907	357	
206-908	358	
206-909	359	
206-910	360	
206-911	361	
206-912	362	
206-913	363	
206-914	364	
206-915	365	
206-916	366	2
206-917	367	
206-918	368	
206-919	369	
206-920	370	
206-921	371	
206-922	372	
206-923	373	
206-924	374	
206-925	375	
206-926	376	
206-927	377	
206-928	378	
206-929	379	
206-930	380	
206-931	381	
206-932	382	
206-933	383	
206-934	384	
206-935	385	
206-936	386	
206-937	387	
206-938	388	
206-939	389	
206-940	390	
206-941	391	
206-942	392	
206-943	393	
206-944	394	
206-945	395	
206-946	396	
206-947	397	
206-948	398	
206-949	399	
206-950	400	
206-951	401	2.1
206-952	402	
206-953	403	
206-954	404	
206-955	405	
206-956	406	
206-957	407	
206-958	408	

Size Ref.	ID	ID TOL. +/-
<b>3.5mm CS +/- 0.1</b>		
206-959	409	2.1
206-960	410	
206-961	411	
206-962	412	
206-963	413	
206-964	414	
206-965	415	
206-966	416	
206-967	417	
206-968	418	
206-969	419	
206-970	420	
206-971	421	
206-972	422	
206-973	423	
206-974	424	2.2
206-975	425	
206-976	426	
206-977	427	
206-978	428	
206-979	429	
206-980	430	
206-981	431	
206-982	432	
206-983	433	
206-984	434	
206-985	435	
206-986	436	
206-987	437	
206-988	438	
206-989	439	
206-990	440	

**Internal Diameter**    **Cross Section**



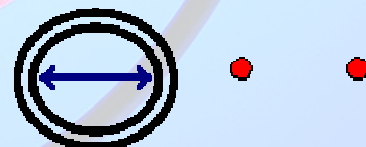
# Metrics

Size Ref.	ID	ID TOL. +/-	
<b>4mm CS +/- 0.12</b>			
204-104	4	0.3	
204-105	5		
204-106	6		
204-107	7		
204-108	8		
204-109	9		
204-110	10		
204-111	11		
204-112	12		
204-113	13		
204-114	14		
204-115	15		
204-116	16		
204-117	17		
204-118	18		
204-119	19		0.4
204-120	20		
204-121	21		
204-122	22		
204-123	23		
204-124	24		
204-125	25		
204-126	26		
204-127	27		
204-128	28		
204-129	29		
204-130	30		
204-131	31	0.5	
204-132	32		
204-133	33		
204-134	34		
204-135	35		
204-136	36		
204-137	37		
204-138	38		
204-139	39		
204-140	40		
204-141	41		
204-142	42		
204-143	43		
204-144	44		
204-145	45		
204-146	46		
204-147	47		
204-148	48		
204-149	49		
204-150	50		
204-151	51	0.6	
204-152	52		
204-153	53		
204-154	54		
204-155	55		
204-156	56		
204-157	57		
204-158	58		
204-159	59		
204-160	60		
204-161	61		
204-162	62		
204-163	63		
204-164	64		
204-165	65		

Size Ref.	ID	ID TOL. +/-	
<b>4mm CS +/- 0.12</b>			
204-166	66	0.6	
204-167	67		
204-168	68		
204-169	69		
204-170	70		
204-171	71		
204-172	72		
204-173	73		
204-174	74		
204-175	75		
204-176	76		
204-177	77		
204-178	78		
204-179	79		
204-180	80		
204-181	81		0.8
204-182	82		
204-183	83		
204-184	84		
204-185	85		
204-186	86		
204-187	87		
204-188	88		
204-189	89		
204-190	90		
204-191	91		
204-192	92		
204-193	93	1	
204-194	94		
204-195	95		
204-196	96		
204-197	97		
204-198	98		
204-199	99		
204-200	100		
204-201	101		
204-202	102		
204-203	103		
204-204	104		
204-205	105		
204-206	106		
204-207	107		
204-208	108		
204-209	109		
204-210	110		
204-211	111		
204-212	112		
204-213	113		
204-214	114		
204-215	115		
204-216	116		
204-217	117		
204-218	118		
204-219	119		
204-220	120		
204-221	121	1	
204-222	122		
204-223	123		
204-224	124		
204-225	125		
204-226	126		
204-227	127		

Size Ref.	ID	ID TOL. +/-
<b>4mm CS +/- 0.12</b>		
204-228	128	1
204-229	129	
204-230	130	
204-231	131	
204-232	132	
204-233	133	
204-234	134	
204-235	135	
204-236	136	
204-237	137	
204-238	138	
204-239	139	
204-240	140	
204-241	141	
204-242	142	
204-243	143	
204-244	144	
204-245	145	
204-246	146	
204-247	147	
204-248	148	
204-249	149	
204-250	150	
204-251	151	
204-252	152	
204-253	153	
204-254	154	
204-255	155	
204-256	156	
204-257	157	
204-258	158	
204-259	159	
204-260	160	
204-261	161	
204-262	162	
204-263	163	
204-264	164	
204-265	165	
204-266	166	
204-267	167	
204-268	168	
204-269	169	
204-270	170	
204-271	171	
204-272	172	
204-273	173	
204-274	174	
204-275	175	
204-276	176	
204-277	177	
204-278	178	
204-279	179	
204-280	180	

Internal Diameter Cross Section





# Metrics

Size Ref.	ID	ID TOL. +/-
<b>4mm CS +/- 0.12</b>		
204-281	181	1.3
204-282	182	
204-283	183	
204-284	184	
204-285	185	
204-286	186	
204-287	187	
204-288	188	
204-289	189	
204-290	190	
204-291	191	
204-292	192	
204-293	193	
204-294	194	
204-295	195	
204-296	196	
204-297	197	
204-298	198	
204-299	199	
204-300	200	
204-301	201	
204-302	202	
204-303	203	
204-304	204	
204-305	205	
204-306	206	
204-307	207	
204-308	208	
204-309	209	
204-310	210	
204-311	211	
204-312	212	
204-313	213	
204-314	214	
204-315	215	
204-316	216	
204-317	217	
204-318	218	
204-319	219	
204-320	220	
204-321	221	
204-322	222	
204-323	223	
204-324	224	
204-325	225	
204-326	226	
204-327	227	
204-328	228	
204-329	229	
204-330	230	
204-331	231	
204-332	232	
204-333	233	
204-334	234	
204-335	235	
204-336	236	
204-337	237	
204-338	238	
204-339	239	
204-340	240	
204-341	241	
204-342	242	

Size Ref.	ID	ID TOL. +/-
<b>4mm CS +/- 0.12</b>		
204-343	243	1.3
204-344	244	
204-345	245	
204-346	246	
204-347	247	
204-348	248	
204-349	249	
204-350	250	
204-351	251	
204-352	252	
204-353	253	
204-354	254	
204-355	255	
204-356	256	
204-357	257	
204-358	258	
204-359	259	
204-360	260	
204-361	261	
204-362	262	
204-363	263	
204-364	264	
204-365	265	
204-366	266	
204-367	267	
204-368	268	
204-369	269	
204-370	270	
204-371	271	
204-372	272	
204-373	273	
204-374	274	
204-375	275	
204-376	276	
204-377	277	
204-378	278	
204-379	279	
204-380	280	
204-381	281	
204-382	282	
204-383	283	
204-384	284	
204-385	285	
204-386	286	
204-387	287	
204-388	288	
204-389	289	
204-390	290	
204-391	291	
204-392	292	
204-393	293	
204-394	294	
204-395	295	
204-396	296	
204-397	297	
204-398	298	
204-399	299	
204-400	300	
204-401	301	1.6
204-402	302	
204-403	303	
204-404	304	

Size Ref.	ID	ID TOL. +/-
<b>4mm CS +/- 0.12</b>		
204-405	305	1.6
204-406	306	
204-407	307	
204-408	308	
204-409	309	
204-410	310	
204-411	311	
204-412	312	
204-413	313	
204-414	314	
204-415	315	
204-416	316	
204-417	317	
204-418	318	
204-419	319	
204-420	320	
204-421	321	
204-422	322	
204-423	323	
204-424	324	
204-425	325	
204-426	326	1.7
204-427	327	
204-428	328	
204-429	329	
204-430	330	
204-431	331	
204-432	332	
204-433	333	
204-434	334	
204-435	335	
204-436	336	
204-437	337	
204-438	338	
204-439	339	
204-440	340	
204-441	341	
204-442	342	
204-443	343	
204-444	344	
204-445	345	1.7
204-446	346	
204-447	347	
204-448	348	
204-449	349	
204-450	350	
204-451	351	1.8
204-452	352	
204-453	353	
204-454	354	
204-455	355	
204-456	356	
204-457	357	
204-458	358	
204-459	359	
204-460	360	
204-461	361	
204-462	362	
204-463	363	
204-464	364	
204-465	365	
204-466	366	

# Metrics

Size Ref.	ID	ID TOL. +/-
<b>4mm CS +/- 0.12</b>		
204-467	367	1.8
204-468	368	
204-469	369	
204-470	370	
204-471	371	
204-472	372	
204-473	373	
204-474	374	
204-475	375	
204-476	376	
204-477	377	
204-478	378	
204-479	379	
204-480	380	
204-481	381	
204-482	382	
204-483	383	
204-484	384	
204-485	385	
204-486	386	
204-487	387	
204-488	388	
204-489	389	
204-490	390	
204-491	391	
204-492	392	
204-493	393	
204-494	394	
204-495	395	
204-496	396	
204-497	397	
204-498	398	
204-499	399	
204-500	400	
204-501	401	2.1
204-502	402	
204-503	403	
204-504	404	
204-505	405	
204-506	406	
204-507	407	
204-508	408	
204-509	409	
204-510	410	
204-511	411	
204-512	412	
204-513	413	
204-514	414	
204-515	415	
204-516	416	
204-517	417	
204-518	418	
204-519	419	
204-520	420	
204-521	421	
204-522	422	2.2
204-523	423	
204-524	424	
204-525	425	
204-526	426	
204-527	427	
204-528	428	

Size Ref.	ID	ID TOL. +/-
<b>4mm CS +/- 0.12</b>		
204-529	429	2.2
204-530	430	
204-531	431	
204-532	432	
204-533	433	
204-534	434	
204-535	435	
204-536	436	
204-537	437	
204-538	438	
204-539	439	2.4
204-540	440	
204-541	441	
204-542	442	
204-543	443	
204-544	444	
204-545	445	
204-546	446	
204-547	447	
204-548	448	
204-549	449	2.5
204-550	450	
204-551	451	
204-552	452	
204-553	453	
204-554	454	
204-555	455	
204-556	456	
204-557	457	
204-558	458	
204-559	459	
204-560	460	2.5
204-561	461	
204-562	462	
204-563	463	
204-564	464	
204-565	465	
204-566	466	
204-567	467	
204-568	468	
204-569	469	
204-570	470	
204-571	471	
204-572	472	
204-573	473	
204-574	474	
204-575	475	
204-576	476	2.5
204-577	477	
204-578	478	
204-579	479	
204-580	480	
204-581	481	
204-582	482	
204-583	483	
204-584	484	
204-585	485	
204-586	486	
204-587	487	
204-588	488	
204-589	489	
204-590	490	

Size Ref.	ID	ID TOL. +/-
<b>4mm CS +/- 0.12</b>		
204-591	491	2.5
204-592	492	
204-593	493	
204-594	494	
204-595	495	
204-596	496	
204-597	497	
204-598	498	
204-599	499	
204-600	500	

Size Ref.	ID	ID TOL. +/-
<b>5mm CS +/- 0.12</b>		
204-604	4	0.3
204-605	5	
204-606	6	
204-607	7	
204-608	8	
204-609	9	
204-610	10	
204-611	11	
204-612	12	
204-613	13	
204-614	14	0.4
204-615	15	
204-616	16	
204-617	17	
204-618	18	
204-619	19	
204-620	20	
204-621	21	
204-622	22	
204-623	23	
204-624	24	
204-625	25	0.5
204-626	26	
204-627	27	
204-628	28	
204-629	29	
204-630	30	
204-631	31	
204-632	32	
204-633	33	
204-634	34	
204-635	35	
204-636	36	
204-637	37	
204-638	38	
204-639	39	
204-640	40	
204-641	41	
204-642	42	
204-643	43	
204-644	44	
204-645	45	
204-646	46	
204-647	47	
204-648	48	
204-649	49	
204-650	50	

# Metrics

Size Ref.	ID	ID TOL. +/-	Size Ref.	ID	ID TOL. +/-	Size Ref.	ID	ID TOL. +/-
<b>5mm CS +/- 0.12</b>			<b>5mm CS +/- 0.12</b>			<b>5mm CS +/- 0.12</b>		
204-651	51	0.6	204-708	108	0.8	204-765	165	1
204-652	52		204-709	109		204-766	166	
204-653	53		204-710	110		204-767	167	
204-654	54		204-711	111		204-768	168	
204-655	55		204-712	112		204-769	169	
204-656	56		204-713	113		204-770	170	
204-657	57		204-714	114		204-771	171	
204-658	58		204-715	115		204-772	172	
204-659	59		204-716	116		204-773	173	
204-660	60		204-717	117		204-774	174	
204-661	61		204-718	118		204-775	175	
204-662	62		204-719	119		204-776	176	
204-663	63		204-720	120		204-777	177	
204-664	64		204-721	121		204-778	178	
204-665	65		204-722	122		204-779	179	
204-666	66		204-723	123		204-780	180	
204-667	67		204-724	124		204-781	181	
204-668	68		204-725	125		204-782	182	
204-669	69		204-726	126		204-783	183	
204-670	70		204-727	127		204-784	184	
204-671	71		204-728	128	204-785	185		
204-672	72		204-729	129	204-786	186		
204-673	73		204-730	130	204-787	187		
204-674	74		204-731	131	204-788	188		
204-675	75		204-732	132	204-789	189		
204-676	76		204-733	133	204-790	190		
204-677	77		204-734	134	204-791	191		
204-678	78		204-735	135	204-792	192		
204-679	79		204-736	136	204-793	193		
204-680	80		204-737	137	204-794	194		
204-681	81		204-738	138	204-795	195		
204-682	82		204-739	139	204-796	196		
204-683	83		204-740	140	204-797	197		
204-684	84		204-741	141	204-798	198		
204-685	85		204-742	142	204-799	199		
204-686	86		204-743	143	204-800	200		
204-687	87		204-744	144	204-801	201		
204-688	88		204-745	145	204-802	202		
204-689	89		204-746	146	204-803	203		
204-690	90		204-747	147	204-804	204		
204-691	91	204-748	148	204-805	205			
204-692	92	204-749	149	204-806	206			
204-693	93	204-750	150	204-807	207			
204-694	94	204-751	151	204-808	208			
204-695	95	204-752	152	204-809	209			
204-696	96	204-753	153	204-810	210			
204-697	97	204-754	154	204-811	211			
204-698	98	204-755	155	204-812	212			
204-699	99	204-756	156	204-813	213			
204-700	100	204-757	157	204-814	214			
204-701	101	204-758	158	204-815	215			
204-702	102	204-759	159	204-816	216			
204-703	103	204-760	160	204-817	217			
204-704	104	204-761	161	204-818	218			
204-705	105	204-762	162	204-819	219			
204-706	106	204-763	163	204-820	220			
204-707	107	204-764	164	204-821	221			
								1.3

# Metrics

Size Ref.	ID	ID TOL. +/-	Size Ref.	ID	ID TOL. +/-	Size Ref.	ID	ID TOL. +/-
<b>5mm CS +/- 0.12</b>			<b>5mm CS +/- 0.12</b>			<b>5mm CS +/- 0.12</b>		
204-822	222	1.3	204-883	283	1.5	204-944	344	1.7
204-823	223		204-884	284		204-945	345	
204-824	224		204-885	285		204-946	346	
204-825	225		204-886	286		204-947	347	
204-826	226		204-887	287		204-948	348	
204-827	227		204-888	288		204-949	349	
204-828	228		204-889	289		204-950	350	
204-829	229		204-890	290		204-951	351	
204-830	230		204-891	291		204-952	352	
204-831	231		204-892	292		204-953	353	
204-832	232		204-893	293	204-954	354		
204-833	233		204-894	294	204-955	355		
204-834	234		204-895	295	204-956	356		
204-835	235		204-896	296	204-957	357		
204-836	236		204-897	297	204-958	358		
204-837	237		204-898	298	204-959	359		
204-838	238		204-899	299	204-960	360		
204-839	239		204-900	300	204-961	361		
204-840	240		204-901	301	204-962	362		
204-841	241		204-902	302	204-963	363		
204-842	242		204-903	303	204-964	364		
204-843	243		204-904	304	204-965	365		
204-844	244		204-905	305	204-966	366		
204-845	245		204-906	306	204-967	367		
204-846	246		204-907	307	204-968	368		
204-847	247	204-908	308	204-969	369			
204-848	248	204-909	309	204-970	370			
204-849	249	204-910	310	204-971	371			
204-850	250	204-911	311	204-972	372			
204-851	251	204-912	312	204-973	373			
204-852	252	204-913	313	204-974	374			
204-853	253	204-914	314	204-975	375			
204-854	254	204-915	315	204-976	376			
204-855	255	204-916	316	204-977	377			
204-856	256	204-917	317	204-978	378			
204-857	257	204-918	318	204-979	379			
204-858	258	204-919	319	204-980	380			
204-859	259	204-920	320	204-981	381			
204-860	260	204-921	321	204-982	382			
204-861	261	204-922	322	204-983	383			
204-862	262	204-923	323	204-984	384			
204-863	263	204-924	324	204-985	385			
204-864	264	204-925	325	204-986	386			
204-865	265	204-926	326	204-987	387			
204-866	266	204-927	327	204-988	388			
204-867	267	204-928	328	204-989	389			
204-868	268	204-929	329	204-990	390			
204-869	269	204-930	330	204-991	391			
204-870	270	204-931	331	204-992	392			
204-871	271	204-932	332	204-993	393			
204-872	272	204-933	333	204-994	394			
204-873	273	204-934	334	204-995	395			
204-874	274	204-935	335	204-996	396			
204-875	275	204-936	336	204-997	397			
204-876	276	204-937	337	204-998	398			
204-877	277	204-938	338	204-999	399			
204-878	278	204-939	339					
204-879	279	204-940	340					
204-880	280	204-941	341					
204-881	281	204-942	342					
204-882	282	204-943	343					

# NITRILE 70°

**Compound Ref:** K6  
**Material Ref:** MN70  
**Hardness Range:** 70° +/- 5° IRHD  
**Temperature Range:** +120°C/- 40°C

Bovill & Boyd (Engineering) Ltd material reference MN70 is based on an Acrylonitrile Butadiene Co-polymer material and is resistant to all mineral oils, water and watery liquids, combustion gases and hot air, as well as numerous chemicals. MN70 is a general purpose material and is used in a variety of applications.

## PHYSICAL PROPERTIES

Hardness IRHD	70 +/- 5
Tensile Strength	149 kg/cm <sup>2</sup>
Elongation at Break (%)	300

## AIR AGED

72 hrs @	100°C	125°C
Hardness Change	+ 6	+ 10
Tensile Change (%)	+ 15	+ 26
Elongation Change (%)	- 17	- 33

## COMPRESSION SET

22 hrs @ 100°C	7.7%
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## AGED IN ASTM OIL No. 1

72 hrs @	100°C	125°C
Hardness Change	+ 5	+ 10
Tensile Change (%)	+ 18	+ 27
Elongation Change (%)	- 14	- 28
Volume Change (%)	- 5	- 6

## AGED IN ASTM OIL No. 3

72 hrs @	100°C	125°C
Hardness Change	- 4	- 4
Tensile Change (%)	- 2	+ 3
Elongation Change (%)	- 14	- 23
Volume Change (%)	+ 12.5	+ 13.2

## AGED IN WATER

72 hrs @	100°C
Hardness Change	0
Tensile Change (%)	+ 9
Elongation Change (%)	- 12
Volume Change (%)	+ 4.7

## COLD BRITTLENESS

(ASTM D.746)

21  
- 40°C

# NITRILE 90°

**Compound Ref:** K0  
**Material Ref:** MN90  
**Hardness Range:** 70° +/- 5° IRHD  
**Temperature Range:** +120°C/- 40° C

Bovill & Boyd (Engineering) Ltd material reference MN90 is based on an Acrylonitrile Butadiene Copolymer material and is resistant to all mineral oils, water and watery liquids, hot air and numerous chemicals. MN90 is a general purpose material and is used in a variety of applications.

## PHYSICAL PROPERTIES

Hardness IRHD	90 +/- 5
Tensile Strength	165 kg/cm <sup>2</sup>
Elongation at Break (%)	180

## AIR AGED

**72 hrs @**

Hardness Change  
Tensile Change (%)  
Elongation Change (%)

**100°C**

+ 3  
+ 3  
- 7.2

## COMPRESSION SET

**22 hrs @ 100°C**

**5.4%**

## AGED IN ASTM OIL No. 1

**72 hrs @**

Hardness Change  
Tensile Change (%)  
Elongation Change (%)  
Volume Change (%)

**100°C**

+ 3  
+ 0.8  
- 13.5  
- 4.2

## AGED IN ASTM OIL No. 3

**72 hrs @**

Hardness Change  
Tensile Change (%)  
Elongation Change (%)  
Volume Change (%)

**100°C**

- 9  
- 5  
- 10.4  
+ 13.1

## AGED IN WATER

**72 hrs @**

Hardness Change  
Tensile Change (%)  
Elongation Change (%)  
Volume Change (%)

**100°C**

- 2  
- 0.8  
- 9.3  
+ 6.1

## COLD BRITTLENESS

(ASTM D.746)

- 35°C 22

# NITRILE 60°

**Compound Ref:** K4  
**Material Ref:** MN60  
**Hardness Range:** 60° +/- 5° IRHD  
**Temperature Range:** +120°C/- 40°C

Bovill & Boyd (Engineering) Ltd material reference MN70 is based on an Acrylonitrile Butadiene Copolymer material and is resistant to all mineral oils, water and watery liquids, hot air, and numerous chemicals. MN60 is a general purpose material and is used in a variety of applications.

## PHYSICAL PROPERTIES

Hardness IRHD	60 +/- 5
Tensile Strength	157 kg/cm <sup>2</sup>
Elongation at Break (%)	350

## AIR AGED

72 hrs @	100°C	125°C
Hardness Change	+ 5	+ 11
Tensile Change (%)	+ 4	+ 20
Elongation Change (%)	- 28	- 41

## COMPRESSION SET

22 hrs @ 100°C 7.0%

## AGED IN ASTM OIL No. 1

72 hrs @	100°C	125°C
Hardness Change	+ 5	+ 9
Tensile Change (%)	+ 16	+ 19
Elongation Change (%)	- 18	- 30
Volume Change (%)	- 5	- 5.8

## AGED IN ASTM OIL No. 3

72 hrs @	100°C
Hardness Change	0
Tensile Change (%)	+ 9
Elongation Change (%)	- 17
Volume Change (%)	+ 3.3

## AGED IN WATER

72 hrs @	100°C
Hardness Change	- 1
Tensile Change (%)	+ 2
Elongation Change (%)	- 17
Volume Change (%)	+ 6

## COLD BRITTLENESS

(ASTM D.746) - 40°C

# FLOURELASTOMER (VITON 75°)

Compound Ref: G6  
Material Ref: VI75  
Hardness Range: 75° +/- 5° IRHD

## PHYSICAL PROPERTIES

Hardness IRHD	75 +/- 5
Tensile Strength	150 kg/cm <sup>2</sup>
Elongation at Break (%)	180
Tearing	18 N/mm
Low temperature brittleness	-15°C
Low temperature - TR10	-6°C

## AIR AGED

<b>168 hrs @</b>	<b>150°C</b>
Hardness Change	+ 2
Tensile Change (%)	+ 9
Elongation Change (%)	+ 4

## COMPRESSION SET

<b>24 hrs @ 175°C</b>	<b>9%</b>
<b>1000 hrs @ 150°C</b>	<b>25.1%</b>

## AGED IN ASTM OIL No. 1

<b>168 hrs @</b>	<b>150°C</b>
Hardness Change	- 1
Tensile Change (%)	- 2
Elongation Change (%)	- 7
Volume Change (%)	+ 0.1

## AGED IN ASTM OIL No. 3

<b>70 hrs @</b>	<b>100°C</b>
Hardness Change	- 1
Tensile Change (%)	- 7
Elongation Change (%)	- 7
Volume Change (%)	+ 0.8

## AGED IN WATER

<b>24 hrs @</b>	<b>50°C</b>
Hardness Change	+ 1
Tensile Change (%)	- 9
Elongation Change (%)	- 9
Volume Change (%)	- 3

## COLD BRITTLENESS

(ASTM D.746)	<b>24</b> - 15°C
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# SILICONE 70°

Compound Ref: A-F6  
Material Ref: SI70  
Hardness Range: 70° +/- 5° IRHD

## PHYSICAL PROPERTIES

Hardness IRHD	70 +/- 5
Tensile Strength	72 kg/cm <sup>2</sup>
Elongation at Break (%)	245

## AIR AGED

24 hrs @	250°C
Hardness Change	0
Tensile Change (%)	- 30
Elongation Change (%)	- 25

## COMPRESSION SET

24 hrs @ 175°C	18%
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## AGED IN ASTM OIL No. 1

70 hrs @	175°C
Hardness Change	- 14
Tensile Change (%)	- 11
Elongation Change (%)	- 11
Volume Change (%)	+ 14.5

## AGED IN ASTM OIL No. 3

70 hrs @	175°C
Hardness Change	- 24
Tensile Change (%)	- 56
Elongation Change (%)	- 40
Volume Change (%)	+ 53

## COLD BRITTLENESS

(ASTM D.746)	- 60°C
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- 1 = Good service. Suitable for continuous use.
- 2 = Fair service. Usually suitable for continuous service and suitable for intermittent service.
- 3 = Conditional service. Suitable if exposure is limited or infrequent.
- 4 = Not recommended.
- - = Insufficient information at time of publication

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Abietic Acid							1
Acetaldehyde	2	2	2	4	4	4	2
Acetamide	1	2	1	3	2	1	1
Acetanilide							1
Acetic Acid 30%	2	1	1	3		2	1
Acetic acid, glacial	2	2	2	4	3	4	1
Acetic anhydride	4	3	2	4	2	4	1
Acetoacetic Acid							1
Acetone	4	3	1	4	4	4	1
Acetone Cyanohydrin							1
Acetonitrile	3		1	1	1		1
Acetophenetidin							1
Acetophenone	4	4	1	4	4	4	1
Acetylacetone	4	4	1	4	4	4	1
Acetyl-o-Toluidine							1
Acetyl Bromide							1
Acetyl Chloride	4	3	4	1	1	1	1
Acetylene	1	2	1	1	1	-	1
Acetylene Tetrabromide	4	4	1	1	1	2	1
Aconitic Acid							1
Acridine							1
Acrolein							1
Acrylic Acid	2		3	4	4		1
Acrylonitrile	4	4	4	3	2	4	1
Adipic Acid	1	-	2	2	2	1	1
Aero Lubriplate	1	2	4	1	1	1	1
Aero Shell 17 Grease	1	2	4	1	1	1	1
Aero Shell 1AC Grease	1	2	4	1	1	1	1
Aero Shell 750	2	4	4	1	1	2	1
Aero Shell 7A Grease	2	2	4	1	1	1	1
AEROSAFE 2300	4	3	1	4	3	3	1
AEROSAFE 2300W	4	3	1	4	2	3	1
Aerozene 50 (50% Hydrazene, 50% EDMH)	3	4	1	4	2	4	2
Air, below 200+A1065F	1	1	1	1	1	1	1
Alkanesulphonic Acid, Mixed							1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Alkanesulphonic Acid, Mixed							1
Alkazene	4	4	4	2	2	2	1
Allyl Chloride	2		1	2	2		1
Aluminium Acetate	2	4	1	4	1	4	1
Aluminium Bromide	1	1	1	1	1	1	1
Aluminium Chlorate							1
Aluminium chloride	1	2	1	1	1	1	1
Aluminium Ethylate							1
Aluminium fluoride	1	2	1	1	1	1	1
Aluminium Fluorosilicate							1
Aluminium Hydroxide	2		2	2	1		1
Aluminium Nitrate	2	2	1	1	1	-	1
Aluminium Oxalate							1
Aluminium Phosphate	1	1	1	1	1	-	1
Aluminium Potassium Sulfate							1
Aluminium Salts	1	1	1	1	1	1	1
Aluminium Sodium Sulfate							1
Aluminium Sulfate	1	1	1	1	1	1	1
AMBREX 33	1	4	4	1	1	3	1
AMBREX 830	1	2	3	1	1	1	1
Amines, Mixed (eg Allyl, Ethyl, etc)	4	2	2	4	2	4	1*
Aminoanthraquinone							1
p-Aminoazobenzene							1
p-Aminobenzoic Acid (PABA)	4		2	2	1		1
2-(2-Aminoethoxy)ethanol							1
p-Aminophenol							1
2-Aminopyridine	4		2	4	3		1
4-Aminosalicylic Acid							1
Ammonia + Lithium Metal Solution	4	4	2	4	4	4	4
Ammonia gas, cold	1	1	1	4	1	4	1
Ammonia gas, hot	4	1	2	4	2	4	1
Ammonia, Liquid	2	2	1	4	3	4	1
Ammonium Acetate							1
Ammonium Arsenate							1
Ammonium Benzoate							1
Ammonium Bicarbonate							1
Ammonium Bifluoroide							1
Ammonium Bromide							1
Ammonium Carbamate							1
Ammonium Carbonate	4	-	1	3	1	-	1
Ammonium Chloride	1	-	1	1	G	-	1
Ammonium Citrate, Dibasic							1
Ammonium Dichromate							1
Ammonium Fluoride							1
Ammonium Fluorosilicate							1
Ammonium Formate							1
Ammonium Hydroxide, Conc.	4	1	1	2	1	1	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Ammonium Iodide							1
Ammonium Molybdate							1
Ammonium Nitrate	1	2	1	1	1	-	1
Ammonium Oxalate							1
Ammonium Perchlorate							1
Ammonium Persulfate	4	-	1	3	1	1	1
Ammonium Phosphate, Dibasic	1	1	1	1	1	-	1
Ammonium Phosphite							1
Ammonium Picrate							1
Ammonium Polysulfide							1
Ammonium Salts	1	1	1	3	1	3	1
Ammonium Sulfamate							1
Ammonium Sulfate	1	-	1	1	1	-	1
Ammonium Sulfide	1	-	1	1	1	-	1
Ammonium Sulfite							1
Ammonium Thiocyanate							1
Ammonium Thioglycollate							1
Ammonium Thiosulfate							1
Ammonium Tungstate							1
Ammonium Valerate							1
Amyl Acetate	4	4	1	4	4	4	1
Amyl Alcohol	2	4	1	1	1	1	1
Amyl Borate	1	-	4	1	1	-	1
Amyl Chloride	1	4	4	1	1	2	1
Amyl Chloronaphthalene	4	4	4	1	2	2	1
Tert-Amyl Methyl Ether (TAME)							1
Amyl Naphthalene	4	4	4	1	2	1	1
Amyl Nitrate							1
Amyl Nitrite							1
Amyl Propionate							1
Amylcinnamic Aldehyde							1
o-sec-Amylphenol							1
AN-0-3 Grade M	1	2	4	1	1	1	1
AN-0-6	1	4	4	1	1	1	1
AN-0-366	1	4	4	1	1	1	1
Anderol (Diester)	2	4	4	1	2	2	1
ANG-25 (Diester Base)	2	2	4	1	2	2	1
ANG-25 (Glycerol Ester)	2	2	1	1	2	2	1
Aniline	4	4	2	1	2	3	1
Aniline Dyes	4	3	1	2	1	2	1
Aniline Hydrochloride	4	4	3	2	1	2	1
Animal Oils	4	4	2	3	2	3	1
Animal Fats	1	2	2	1	1	1	1
Anisole							1
Anisoyl Chloride							1
Ansul Ether 161 or 181	3	4	3	4	1	3	1
Anthracene							1

	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
<b>Chemical</b>							
Anthranilic Acid							1
Anthraquinone							1
Antimony Pentachloride							1
Antimony Pentafluoride							2
Antimony Sulfate							1
Antimony Tribromide							1
Antimony Trichloride							1
Antimony Trifluoride							2
Antimony Troxide	1		1	1	1		1
AN-VV-366B Hydraulic	1	4	4	1	1	1	1
Aqua Regia	4	4	3	2	3	3	1*
Arachidic Acid							1
Argon	1	2	1	1	1	2	1
AROCLOR 1248	3	3	2	1	1	2	1
AROCLOR 1254	4	3	2	1	1	1	1
AROCLOR 1260	1	1	2	1	1	1	1
Aromatic Fuels	2	4	4	1	2	2	1
Arsenic Acid	1	1	1	1	1	1	1
Arsenic Pentafluoride							2
Arsenic Trichloride	1	-	4	4	4	-	1
Arsenic Trioxide							1
Arsenic Trisulfide							1
Arsine							1
Ascorbic Acid							1
Askarel Transformer Oil	2	4	4	1	1	2	1
Aspartic Acid							1
Asphalt	2	4	4	1		2	1
Aspirin							1
ASTM Oil No 1	1	1	4	1	1	1	1
ASTM Oil No 2	1	4	4	1	2	1	1
ASTM Oil No 3	1	3	4	1	3	1	1
ASTM Oil No 4	2	4	4	1	2	2	1
ASTM Oil No 5	1		4	1	1		1
ASTM Reference Fuel A	1	4	4	1	2	1	1
ASTM Reference Fuel B	1	4	4	1	4	1	1
ASTM Reference Fuel C	2	4	4	2	4	2	1
ASTM Reference Fuel D	2		4	1	4		1
AUREX 903R	1	4	4	1	1	4	1
Automatic Transmission Fluid	1	4	4	1	1	-	1
Automotive Brake Fluid	3	3	1	4	1	4	1
AXAREL 9100							1
Azobenzene							1
BARDOL B	4	4	4	1	2	2	1
Barium Carbonate							1
Barium Chlorate							1
Barium Chloride	1	1	1	1	1	1	1
Barium Cyanide							1
Barium Hydroxide	1	1	1	1	1	1	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Barium Iodide							1
Barium Nitrate							1
Barium Oxide							1
Barium Peroxide							1
Barium Salts	1	1	1	1	1	1	1
Barium Sulfate	1	1	1	1	1	1	1
Barium Sulfide	1	1	1	1	1	1	1
BAYOL 35	1	4	4	1	1	1	1
BAYOL D	1	4	4	1	1	1	1
Benzaldehyde	4	4	1	4	2	4	2
Benzamide							1
Benzanthrone							1
Benzene	4	4	4	2	3	1	1
Benzene Hexachloride (BHC)							1
Benzenesulfonic Acid	4	4	4	1	1	2	1
Benzidine							1
Benzil							1
Benzilic Acid							1
Benzoic Acid	4	4	4	1	1	2	1
Benzoin							1
Benzonitrile							1
Benzophenone	4	-	2	1	1	1	1
Benzotrichloride	4		1	1	3		1
Benzotrifluoride							1
Benzoyl Chloride							1
Benzoyl Peroxide							1
Benzyl Acetate							1
Benzyl Alcohol	4	2	2	1	2	2	1
Benzylamine							1
Benzyl Benzoate	4	-	2	1	3	1	1
Benzyl Bromide							1
Benzyl Chloride	4	4	4	1	2	1	1
p-Benzylphenol							1
Benzyl Salicylate							1
Beryllium Chloride							1
Beryllium Fluoride							1
Beryllium Oxide							1
Beryllium Sulfate							1
Bismuth Nitrate							1
Bismuth Oxychloride							1
Bismuth Subcarbonate							1
Bittern							1
Black Liquor	2		2	2	2		3
Black Point 77	1	3	1	1	1	3	1
Blast-Furnace Gas	4	1	4	1	1	2	1
Bleach Liquor	4	2	1	1	1	2	1
Bone Oil	1		2	1	1		1
Borane			1				1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Borax	2	2	1	1	1	2	1
Bordeaux Mixture	2	2	1	1	1	2	1
Boric Acid	1	1	1	1	1	1	1
Boric Oxide							1
Borneol							1
Bornyl Acetate							1
Bornyl Formate							1
Boron Fluids (HEF)	2	4	4	1	1	2	1
Boron Phosphate							1
Boron Tribromide							1
Boron Trichloride							1
Boron Trifluoride							1
Boron Trioxide							1
BRAYCO 885 (MIL-L-6085A)	2	4	4	1	2	2	1
BRAYCO 910	2	4	1	4	3	4	1
Brine	1	1	1	1	1	1	1
Bromic Acid							1
Bromine	4	4	4	1	1	2	1
Bromine Pentafluoride	4	4	4	4	4	4	2*
Bromine Trifluoride	4	4	4	4	4	4	2*
Bromine, Anhydrous	4	4	4	1	1	2	1
Bromobenzene	4	4	4	1	4	1	1
Bromochloormethane	4	4	2	1*	3	2	1
Bromochloropropane							1
Bromochlorotrifluoroethane (Halothane)	4	4	4	1	1	2	1
Bromoform							1
Bromotrifluoroethylene (BFE)							1
Bromotrifluoromethane (FC 1381)	1	4	1	1		2	2
Buffered Oxide Etchants (BOE)							1
Bunker Oil	1	2	4	1	2	1	1
1,3-Butadiene	4	4	4	1	2	1	1
Butane	1	4	4	1	2	1	1
n-Butyl Acetate	4	4	2	4	4	4	1
Butyl Acetyl Ricinoleate	2	-	1	1	1	2	1
n-Butyl Acrylate	4	-	4	4	4	4	1
n-Butyl Alcohol	1	2	2	1	1	1	1
sec-Butyl Alcohol (SBA)							1
tert-Butyl Alcohol	2	2	2	1	1	2	1
Butyl Amine	3	4	4	4	2	4	1
Butyl Benzoate	4	-	1	1		1	1
Butyl Benzyl Phthalate (BBP)							1
n-Butyl Butyrate	4	-	1	1		1	1
Butyl CARBITOL	4	4	1	1*	2	4	1
p-tert-Butylcatechol	4	-	2	1	1	1	1
Butyl CELLOSOLVE	3	-	2	4	3	4	1
Butyl CELLOSOLVE Acetate	4	2	2	2	2	2	1
n-Butyl Chloride							1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Butylene	2	4	4	1		2	1
Butyl Ether	3	4	3	4		3	1
Butyl Lactate							1
Butyl Laurate							1
tert-Butyl Mercaptan	4	4	4	1	1	-	1
n-Butyl Methacrylate							1
Butyl Oleate	4	-	2	1	1	2	1
p-tert-Butylphenol							1
Butyl Stearate	2	-	4	1	1	2	1
Butyraldehyde	4	4	2	4	4	4	2
Butyric Acid	4	-	2	2		-	1
Butyric Anhydride							1
Butyrolactone							1
Butyroyl Chloride							1
Cadmium Chloride							1
Cadmium Cyanide	1		1	1	1		1
Cadmium Nitrate							1
Cadmium Oxide							1
Cadmium Sulfate							1
Cadmium Sulfide							1
Calcine Liquors	1	-	1	1	1	1	1
Calcium Nitrate	1	2	1	1	1	1	1
Calcium Acetate	2	4	1	4	1	4	1
Calcium Arsenate	1		1	1	1		1
Calcium Bisulfite	1	3	4	1	1	3	1
Calcium Bromide							1
Calcium Carbide							1
Calcium Carbonate	1	1	1	1	1	1	1
Calcium Chlorate							1
Calcium Chloride	1	1	1	1	1	1	1
Calcium Chromate							1
Calcium Cyanide	1	1	1	1	1	-	1
Calcium Fluoride							1
Calcium Gluconate							1
Calcium Hydride							1
Calcium Hydrogen Sulfite	4	1	4	1	1	1	1
Calcium Hydrosulfide							1
Calcium Hydroxide	1	1	1	1	1	1	1
Calcium Hypochlorite	2	2	1	1	1	2	1
Calcium Hypophosphite							1
Calcium Nitrate	1	2	1	1	1	1	1
Calcium Oxalate							1
Calcium Oxide							1
Calcium Permanganate							1
Calcium Peroxide							1
Calcium Phosphate, Monobasic	1	1	1	1	1	-	1
Calcium Propionate							1
Calcium Salts	1	2	1	1	1	1	1



	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
<b>Chemical</b>							
Calcium Silicate	1	-	1	1	1	-	1
Calcium Stearate							1
Calcium Sulfate							1
Calcium Sulfide	1	2	1	1	1	1	1
Calcium Sulfite	1	1	1	1	1	1	1
Calcium Thiocyanate							1
Calcium Thiosulfate	2	1	1	1	1	1	1
Calcium Tungstate							1
Caliche Liquors	1	2	1	1	1	1	1
Camphene							1
Camphor	1		1	1	1		1
Camphoric Acid							1
Cane Sugar Liquors	1	1	1	1	1	1	1
Capric Acid							1
Caproic Acid							1
Caproic Aldehyde	-	2	2	4		4	1
Caprolactam	1		1	4	2		1
Carbamate	3	-	2	1		1	1
Carbazole							1
Carbitol	2	2	2	2		2	1
Carbolic Acid	4	4	2	1		1	1
Carbon Dioxide, Dry	1	2	2	2	1	2	1
Carbon Dioxide, Wet	1		2	2	1		1
Carbon Disulphide	4	4	4	1	1	1	1
Carbon Fluorides							1
Carbonic Acid	4	1	1	1	1	1	1
Carbon Monoxide	1	1	1	1	1	2	1
Carbon Tetrabromide							1
Carbon Tetrachloride	2	4	4	1	4	2	1*
Caro's Acid							1
Casein							1
Castor Oil	1	1	2	1	1	1	1
Caustic Lime	1	1	1	1	1	1	1
Caustic Potash	2	3	1	4	1	3	1*
Caustic Soda	2	2	1	4	1	2	1*
CELLOSOLVE	4	4	2	4	1	4	1
CELLOSOLVE Acetate	4	4	2	4	3	4	1
CELLUGUARD	1	1	1	1	1	1	1
Cellulose Acetate							1
CELLULUBE (Phosphate Esters)	4	1	1	1*	2	3	1
CELLULUBE A60	4	2	2	4	2	3	1
CELLUTHERM 2505A	2	4	4	2	1	2	1
Cement, Portland	1		1	1	1		1
Ceric Sulfate							1
Cerous Chloride							1
Cerous Fluoride							1
Cerous Nitrate							1
Cetane (Hexadecane)	1	4	4	1	1	3	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Cetyl Alcohol							1
Chaulmoogric Acid							1
Chloral							1
Chloramine							1
Chlordane	2	4	4	1	1	2	1
Chlorextol	2	4	4	1	1	2	1
Chloric Acid							1
Chlorinated Naphthalene	4	4	4	1	4	2	1
Chlorinated Salt Brine	4		4	1	1		1
Chlorinated Solvents	4	4	4	1	3	1	1
Chlorine, Dry	4	4	4	1	2	1	1
Chlorine, Wet	3	4	2	1	2	2	1*
Chlorine Dioxide	4	-	3	2	3	2	2*
Chlorine Trifluoride	4	4	4	4	4	4	2*
Chlorine Water	3	4	2	1	1	-	1
Chloroacetaldehyde							2
Chloroacetic Acid	4	-	2	4	2	4	1
Chloroacetone	4	4	1	4	4	4	1
Chloroacetyl Chloride							1
m-Chloroaniline	4		2	3	2		1
Chlorobenzaldehyde							1
Chlorobenzene	4	4	4	1		2	1
m-Chlorobenzotrifluoride	4	4	4	1		2	1
Chlorobromo Methane	4	4	2	1	2	2	1
Chlorobutadiene	4	4	4	1	3	2	1
Chlorodifluoroethane (FC 142b)			1	4			2
Chlorodifluoromethane (FC 22)	4	4	2	4		3	1
Chlorododecane	4	4	4	1	2	1	1
Chloroform	4	4	4	1	4	3	1
Chlorohydrin	1		1	1	1		1
p-Chloronitrobenzine							1
Chloronitroethane	4	4	4	4		4	1
Chloropentafluoroethane	1	-	1	1	4	-	2*
o-Chlorophenol	4	4	4	1		2	1
p-Chlorophenol							1
Chloropicrin							1
Chloroprene	4	4	4	1	2	2	1
Chlorosulfonic Acid	4	4	4	4		4	1
Chlorotetrafluoroethane							2
p-Chlorotoluene	4	4	4	1		2	1
Chlorotoluene Sulfonic Acid							1
Chlorotrifluoromethane (FC 13)	1	4	1	1		4	2
Chlorotritluoroethylene (CTFE)							2
Chlorex	2	-	2	1	1	1	1
Chloroxylenol							1
Cholesterol							1
Choline							1
Chrome Alum	1	1	1	1	3	-	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Chrome Plating Solution	4	2	2	1	1	2	1
Chromic Acid	4	3	2	1	1	3	1
Chromic Chloride							1
Chromic Fluoride							1
Chromic Hydroxide							1
Chromic Nitrate							1
Chromic Oxide	4		2	1	1		1
Chromic Phosphate							1
Chromic Sulfate							1
Chromium Potassium Sulfate	2		2	1	2		1
Chromyl Chloride							1
Cinnamic Acid							1
Cinnamic Alcohol							1
Cinnamic Aldehyde							1
Circo Light Process Oil	1	4	4	1	1	1	1
Citric Acid	1	1	1	1	1	1	1
City Service 65, 120, 250	1	4	4	1	1	1	1
City Service Kool Motor Oil No 140	1	4	4	1	1	1	1
City Service Pacemaker No 2	1	4	4	1	1	1	1
CLOROX	2	2	2	1		2	1
Coal Tar	1	4	4	1	1	1	1
Cobaltous Acetate							1
Cobaltous Bromide							1
Cobaltous Chloride	1	2	1	1	1	1	1
Cobaltous Linoleate							1
Cobaltous Sulfate							1
Coconut Oil	1	1	3	1	1	1	1
Cod Liver Oil	1	2	1	1	1	1	1
Coke Oven Gas	4	2	4	1	1	2	1
CONVELEX 10	4	4	3	1	2	-	1
COOLANOL	1	4	4	1	1	1	1
Copper Acetate	2	4	1	4	4	4	1
Copper Carbonate							1
Copper Chloride	1	1	1	1	1	1	1
Copper Cyanide	1	1	1	1	2	1	1
Copper Gluconate							1
Copper Naphthenate							1
Copper Nitrate	2		2	1	2		1
Copper Salts	1	1	1	1	1	1	1
Copper Sulfate	1	1	1	1	1	1	1
Corn Oil	1	1	3	1	1	1	1
Cottonseed Oil	1	1	3	1	1	1	1
Creosote-Coal Tar	1	4	4	1	1	1	1
Cresol (Methyl Phenol)	4	4	4	1	1	2	1
Cresylic Acids	4	4	4	1	1	2	1
Crotonaldehyde							1
Crotonic Acid	4	4	2	4		4	1
Crude Oil (Asphalt Base)	2	4	4	1	1	2	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Cumene	4	4	4	1	3	2	1
Cumene Hydroperoxide							1
Cuminic Aldehyde							1
Cupric Sulfate	1		1	1	1		1
Cutting Oil	1	4	4	1	1	1	1
Cyanamide							1
Cyanoacetic Acid							1
Cyanogen Chloride	4		3	2	3		1
Cyanohydrin							1
Cyanuric Acid							1
Cyclohexane	1	4	4	1	2	1	1
Cyclohexanol	1	4	4	1	1	1	1
Cyclohexanone	4	4	2	4	3	4	2
Cyclohexene							1
Cyclohexylamine							1
Cyclopentadiene							1
Cyclopentane							1
Cyclopropane							1
p-Cymene	4	4	4	1		2	1
2, 4-D							1
DDT (Dichlorodiphenyltrichloroethane)	4	4	4	1		1	1
Decahydronaphthalene	4	4	4	1		1	1
n-Decane	1	2	4	1	1	1	1
Deionized Water	2		2	1*	2		1
DELCO Brake Fluid	3	3	1	4	1	4	1
Detergent Solutions	1	1	1	1	1		1
Developing Fluids	1	1	2	1	1	1	1
DEXTRON	1	4	4	1	1	2	1
Diacetone	4	4	1	4		4	1
Diacetone Alcohol (Diacetol)	4	4	1	4	4	4	1
Diallyl Phthalate (DAP)							1
Diamylamine							1
DIAZINON	3	4	4	2	4	2	1
Dibenzyl Ether	4	-	2	4	3	-	1
Dibenzyl Sebacate	4	3	2	2	1	3	1
Diborane							1
Dibromodifluoromethane	4	4	2	-		-	1
Dibromoethylbenzene	4	4	4	1	4	2	1
Dibromotetrafluoroethane (FC 114B2)	2	4	4	2	4	-	2*
Dibutyl Ether	4	4	3	3	4	3	1
Dibutyl tert-Peroxide							1
Dibutyl Phthalate (DBP)	4	2	2	2*	2	3	1
Dibutyl Sebacate	4	2	2	1*	2	2	1
n-Dibutylamine	2	3	2	4	2	4	1
Dicapryl Phthalate	4	3	2	2		2	1
Dichloroacetic Acid							1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
3,4-Dichloroaniline				3			1
o-Dichlorobenzene	4	4	4	1	4	2	1
p-Dichlorobenzene	4	4	4	1	2	2	1
Dichlorobutane	2	4	4	1	1	2	1
Dichlorobutene							1
Dichlorodiethyl Sulfide	-	1	1	-		-	1
Dichlorodifluoromethane (FC 12)	1	4	2	2	4	4	2
Dichloroethylene				2			1
Dichlorofluoroethane (FC 141b)							1
Dichlorofluoromethane (FC 21)	4	4	4	4		-	1
Dichlorohydrin							1
Dichloroisopropyl Ether	4	4	3	3	3	3	1
Dichlorophenol							1
Dichloropropene							1
Dichlorosilane							1
Dichlorotetrafluoroethane (FC 114)	1	4	1	1	4	2	2*
Dichlorotrifluoroethane (FC 123)							1
Dicyclohexylamine	3	-	4	4	3	4	1
Dieldrin (HEOD)							1
Diesel Oil	1	4	4	1	1	1	1
Diester Lubricant (MIL-L-7808)	2	4	4	1	1	2	1
Diester Synthetic Lubricating Oils	2	4	4	1	1	2	1
Diethanolamine (DEA)							1
Diethylamine	2	2	2	4	4	4	1
n,n-Diethylaniline							1
Diethylbenzene	4	4	4	1	3	3	1
Diethyl Carbonate							1
Diethylene Glycol	1	2	1	2	1	1	1
Diethylene Glycol Butyl Ether	4	4	1	3	2	4	1
Diethylene Glycol Methyl Ether							1
Diethylenetriamine							1
Diethyl Ether	4	4	4	4	4	3	1
Diethylhexylamine							1
Diethylhexyl Phthalate	4	3	2	2	2	2	1
Diethylhexyl Sebacate	4	3	2	2	1	3	1
Diethyl Phthalate							1
Diethyl Sebacate	4	2	2	2	2	2	1
Diethyl Sulfate	4		1	4	1		1
Difluoroethane (FC 152 a)	1	-	1	4		-	1*
Diglycol Chloroformate							1
Diglycolic Acid							1
Dihydroxydiphenylsulfone							1
Diisobutylene	2	4	4	1		3	1
Diisobutyl Ketone	-	-	4	4		-	1
Diisooctyl Sebacate (DIOS)	3	3	3	2		3	1
Diisopropylbenzene	4	-	4	1		2	1
Diisopropyl Ketone	4	4	1	4		4	1
Diisopropylidene Acetone	4	4	3	4		4	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Dimethyl Acetamide (DMAC)				4			1
Dimethylamine (DMA)							2
Dimethylaniline	3	4	2	4		4	1
Dimethyl Ether	4	1	4	4	4	1	1
Dimethylformamide (DMF)	3	2	2	4	3	4	1
Dimethyl Heptanol							1
Dimethyl Hydrazine							1
Dimethyl Phthalate	4	-	2	1*	4	2	1
Dimethyl Sulfoxide (DMSO)	3		1	4	2		1
Dimethyl Terephthalate (DMT)				2			1
Dinitrotoluene (DNT)	4	4	4	4	4	4	1
Dioxane	4	4	2	4	4	3	1
Dioxolane	4	4	2	4	4	4	1
Dipentene	2	4	4	1	3	3	1
Diphenyl	4	4	4	1	3	2	1
Diphenylamine (DPA)							1
Diphenylene Oxide							1
sym-Diphenylethane							1
Diphenyl Oxide	4	3	4	1	2	2	1
Disilane							1
n-Dodecyl Mercaptan							1
Dodecylbenzene							1
Dow Chemical 50-4, ET588	3	-	1	4	4	4	2
Dow Chemical ET 378	4	4	3	3	3	-	2
Dow Corning 1208, 4050, 6620, F-60, Xf-60	1	1	1	1	1		1
Dow Corning 3, 4, 11	1	3	1	1	1	1	1
Dow Corning 5, 33, 44, 200, 220, 510, 550, 705, 710	1	3	1	1	1	2	1
Dow Corning 55	1	3	1	1	1	2	1
Dow Corning F-61	1		1	1	1		1
DOW Guard	1	1	1	1	1	1	1
DOWTHERM 209	3	3	1	3	1	3	1
DOWTHERM A	4	4	4	1	2	2	1
DOWTHERM E	4	4	4	1	1	2	1
Drinking Water	1	1	1	1	1	1	1
Dry Cleaning Fluids	3	4	4	1	3	2	2
DTE Light Oil	1	3	4	1	1	1	1
ELCO 28 EP Lubricant	1	2	4	1	1	1	1
Epichlorohydrin	4	4	2	4	4	4	2
Epoxy Resins	2	-	1	4	2	-	1
Erucic Acid							1
Esam-6 Fluid	4	-	1	4	4	4	1
ESSO Fuel 208	1	4	4	1	1	1	1
ESSO Golden Gasoline	2	4	4	1	3	1	1
ESSO Motor Oil	1	4	4	1	1	1	1
ESSO Transmission Fluid, Type A	1	4	4	1	1	1	1
ESSO WS2812 (MIL-L-7808A)	1	4	4	1	1	1	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
ESSO XP90-EP Lubricant	1	4	4	1	1	1	1
ESSTIC 42,43	1	4	4	1	1	1	1
Ethane	1	4	4	1		2	1
Ethanethiol	4	3	3	2		-	1
Ethanolamine	4	2	2	4		4	1
Ether	4	4	4	4	4	3	1
Ethyl Acetate	4	2	2	4	4	4	1
Ethyl Acetoacetate	4	2	2	4		4	1
Ethyl Acrylate	4	2	2	4	3	4	1
Ethyl Alcohol (Ethanol)	1	1	1	3	1	1	1
Ethyl Aluminium Dichloride							1
Ethylamine				4			1
Ethyl Benzene	4	4	4	1	3	1	1
Ethyl Benzoate	4	4	4	1	3	1	1
Ethyl Bromide	2	-	4	1	1	1	1
Ethyl Butyrate							1
Ethyl Cellulose	2	3	2	4		4	1
Ethyl Chloride	1	4	3	1	2	1	1
Ethyl Chlorocarbonate	4	4	4	1	2	2	1
Ethyl Cyanide	1		4	1	1		1
Ethylcyclopentane	1	4	4	1	2	1	1
Ethyl Dibromide	4		3	1	2		1
Ethyl Dichloride	4		3	1	1		1
Ethylene	1	-	2	1		1	1
Ethylene Chloride	4	4	4	2		2	1
Ethylene Chlorohydrin	4	3	2	1	1	2	1
Ethylene Cyanohydrin							1
Ethylenediamine	1	1	1	4	2	4	2
Ethylene Dibromide	4	4	3	1		3	1
Ethylene Dichloride	4	4	3	1		3	1
Ethylene Glycol	1	1	1	1	1	1	1
Ethylene Glycol Butyl Ether	3	-	2	4	3	4	1
Ethylene Glycol Butyl Ether Acetate	4	2	2	2	2	2	1
Ethylene Glycol Ethyl Ether Acetate	4	4	2	4	3	4	1
Ethylene Oxide	4	4	4	4	4	4	1
Ethylene Trichloride	4	4	3	1	4	3	1
Ethyl Ether	4	4	3	4	4	3	1
Ethylethoxy-3-Propionate (EEP)							1
Ethyl Formate	4	-	2	1	1	1	2
Ethyl Hexanol	1	2	1	1		1	1
Ethyl Isovalerate							1
Ethyl Lactate (EL)							1
Ethyl Mercaptan	4	3	-	2		-	1
Ethylmorpholine							1
Ethyl Nitrite							1
Ethyl Oxalate	4	4	1	1		2	1
Ethyl Pentachlorobenzene	4	4	4	1		2	1
Ethyl Silicate (TEOS)	1	4	1	1		1	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Ethylsulfuric Acid							1
Ethyl Tertiary Butyl Ether	3		3	2	2		1
Ethylhexyl Acrylate							1
Ethylmorpholinestannous Octotatate (50/50 mixture)	4	-	2	4		-	1
Fatty Acids	2	3	3	1	1	-	1
F 60 Fluid	1	4	1	1	1	1	1
F 61 Fluid	1	4	1	1	1	1	1
FC 11 (CFC) (Trichlorofluoromethane)	2	4	4	2	4	2	2
FC 12 (CFC) (Dichlorodifluoromethane)	1	4	2	2	4	4	2
FC 13 (CFC) (Chlorotrifluoromethane)	1	4	1	1		4	2
FC 13B1 (FC) (Bromotrifluoromethane)	1	4	1	2		2	2
FC 14 (FC) (Tetrafluoromethane)	1	4	1	1		-	1
FC 21 (CFC) (Dichlorofluoromethane)	4	4	4	4		-	1
FC 22 (HCFC) (Chlorodifluoromethane)	4	4	2	4		3	1
FC 23 (HFC) (Fluoroform)							1
FC 31	4	-	1	4		-	2
FC 32	1	-	1	4	4	-	1*
FC 43 (Heptacosofluorotributylamine)	1	1	1	1	3	1	4
FC 75	1	1	1	2	3	2	4
FC 112	2	4	4	1	4	2	1*
FC 113 (CFC) (Trichlorotrifluoroethane)	2	4	4	2	4	4	2*
FC 114 (CFC) (Dichlorotetrafluoroethane)	1	4	1	1	4	2	2*
FC 114B2 (Dibromotetrafluoroethane)	2	4	4	2	4	-	2*
FC 115 (CFC) (Chloropentafluoroethane)	1	-	1	2	4	-	2*
FC 116 (FC) (Hexafluoroethane)	1	-	1	2		-	2
FC 123 (HCFC) (Dichlorotrifluoroethane)							1
FC 124 (CFC) Chlorotetrafluoroethane)							2
FC 125 (HFC) (Pentafluoroethane)							2
FC 134a (HFC) (1,1,1,2- Tetrafluoroethane)							1
FC 141b (HCFC) (Dichlorofluoroethane)							1
FC 142b (HCFC) (Difluorochloroethane)	2	-	4	2	4	-	2*
FC 143a (HFC) (1.1.1.-Trifluoroethane)	4	4	4	1	2	2	1
FC 152a (HCFC) (Difluoroethane)	1	-	1	4		-	1*
FC 152b							2
FC 218	1	-	1	1		-	2
FC 502	2	-	1	2		-	2
FC BF	2	4	4	1		-	2
FC C316	1	-	1	1		-	2
FC C 318 (Octafluoro-tetraethylene)	1	-	1	2	4	-	2*
FC PCA	1	4	4	2	4	-	3
FC TA	1	3	2	3		-	2
FC TC	1	4	2	1		-	2
FC TMC	2	3	3	1		-	2
FC T-P35	1	1	1	1		-	2
FC T-WD602	2	4	2	1		-	2
Ferric Acetate							1
Ferric Ammonium Sulfate							1



	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
<b>Chemical</b>							
Ferric Chloride	1	2	1	1	1	1	1
Ferric Hydroxide							1
Ferric Nitrate	1	3	1	1	1	1	1
Ferric Sulfate	1	2	1	1	1	1	1
Ferrous Ammonium Sulfate							1
Ferrous Chloride							1
Ferrous Iodide							1
Ferrous Sulfate							1
Fish Oil	1	1	4	1		1	1
Fluoboric Acid	1		1				1
Fluorine		4	4	2			2
FLUOROINERT (FC 70)				1			2
Fluorobenzene	4	4	4	1		2	1
Fluoroform (FC 23)							1
FLUOROLUBE	1	1	1	2	2	2	2
Fluorophosphoric Acid, Anhydrous							1
Fluosilicic Acid	1	4	2	2	1	4	1
Fluosulfonic Acid							1
FOMBLIN				1			1*
Formaldehyde	3	2	2	1*	4	4	2
Formanide	3		1	3	2		1
Formic Acid (88%)	2	2	1	4	3	3	2
Fuel Oil	1	4	4	1	1	1	1
Fumaric Acid	1	2	2	1	1	1	1
Furaldehyde	4		2	4	4		2
Furan	4	-	4	4	4	-	1
Furfural	4	4	2	4	4	-	1
Furfuraldehyde	4	4	2	4	4	-	2
Furfuryl Alcohol	4	4	2	1*	2	4	1
Furoic Acid							1
Furyl Carbinol	4	4	2	4	2	4	1
FYRQUEL 90, 100, 150, 220, 300, 500, 550	4	1	1	1	1	3	1
FYRQUEL A60	4	1	2	4	2	3	1
GALDEN	-	-	-	1	2	-	4
Gallic Acid	2	-	2	1	1	1	1
Gasoline	1	4	4	1	2	1	1
Germanium Tetrahydride							1
Glauber's Salt	4	-	2	1	1	1	1
Gluconic Acid							1
Glucose	1	1	1	1	1	1	1
Glutamic Acid							1
Glycerol	1	1	1	1	1	1	1
Glycerophosphoric Acid							1
Glycidol							1
Glycols	1	1	1	1	1	1	1
Green Sulfate Liquor	2	1	1	1	1	2	2
GULF ENDURANCE OILS	1	4	4	1	1	1	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
HALOTHANE (Bromochlorotrifluoroethane)	4	4	4	1	1	2	2
HALOWAX OIL	4	4	4	1	1	1	2
Heavy Water	1	1	1	2	1	1	1
HEF-2 (Trialkyl Pentaborane)	2	4	4	1	1	2	1
Helium	1	1	1	1	1	1	1
Heptachlor							1
Heptanal							1
n-Heptane	1	4	4	1	3	3	1
Heptanoic Acid							1
Hexachloroacetone	4	-	1	4	4	-	1
Hexachlorbutadiene							1
Hexachloroethane							1
n-Hexadecane (Cetane)	1	4	4	1	1	3	1
Hexaethyl Tetraphosphate (HETP)							1
Hexafluoroethane (FC 116)	1		1	2			2
n-Hexaldehyde	4	2	1	4		4	1
Hexamethyldisilazane (HMDS)							1
Hexamethylenediamine							2
Hexamethylenetetramine							2
n-Hexane	1	4	4	1	2	1	1
1-Hexene	2	4	4	1	3	1	1
Hexyl Acetate							1
Hexyl Alcohol	1	2	3	1		2	1
Hexylene Glycol							1
Hexyresorcinol							1
High Viscosity Lubricant H2	1	1	1	1	1	2	1
High Viscosity Lubricant U4	1	1	1	1	1	2	1
Hydraulic Oils (Petroleum, Aircraft)	1	2	4	1	1	1	1
Hydraulic Oils (Synthetic Base)							1
Hydrazine	2	3	1	4	1	4	2
Hydrazine Dihydrochloride							1
Hydrazine Hydrate							1
Hydriodic Acid							1
Hydrobromic Acid	4	4	1	1	1	3	1
Hydrochloric Acid (37%) (Hot)	4	3	3	1	1	2	1
Hydrochloric Acid Conc.	2	4	2	1		3	1
Hydrocyanic Acid	2	3	1	1	1	2	1
Hydrafluoric Acid (49%)	4	4	4	1*		4	1
Hydrofluoric Acid, Anhydrous	4	4	3	1*		4	1
Hydrofluoric Acid, Conc. (Hot)	4	4	4	3		4	1
Hydrofluosilicic Acid	2	4	1	1	1	4	1
Hydrogen	1	3	1	1		3	1
Hydrogen Bromide, Anhydrous							1
Hydrogen Chloride, Anhydrous	4		1	1	1		1
Hydrogen Fluoride, Anhydrous		4	2	4			2
Hydrogen Iodide, Anhydrous							1
Hydrogen Peroxide (36%)	2	2	1	1	1	2	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Hydrogen Selenide							1
Hydrogen Sulfide	1	3	1	4	1	3	1
HYDROLUBE	1	2	1	1	1	2	1
Hydroquinone	3	2	4	2	3	2	2
Hydroxyacetic Acid							1
Hydroxycitronellal							1
Hydroxyethylenediamine							1
Hydyne	2	4	1	4		4	2
HYJET	4	4	1	4	2	4	1
Hypochlorous Acid	4	-	2	1		-	1
Indole							1
INDUSTRON	1	4	4	1	1	1	1
Iodic Acid							1
Iodine	2	-	2	1	1	1	1
Iodine pentafluoride	4	4	4	4	4	4	2
Iodoform							1
Isoamyl Acetate							1
Isoamyl Butyrate							1
Isoamyl Valerate							1
Isobutane							1
Isobutene							1
Isobutyl Acetate							1
Isobutyl Acrylate							1
Isobutyl Alcohol	2	1	1	1	1	2	1
Isobutyl n-Butyrate	4	-	1	1	1	1	1
Isobutyraldehyde	3		2	4	4		2
Isobutyl Chloride	4		4	1	4		1
Isobutyl Ether	2		4	4	4		1
Isobutyric Acid	2		2	4	3		1
Isodecanol							1
Isododecane	1	4	4	1	1	1	1
Isoeugenol							1
Isooctane	1	4	4	1		1	1
Isopentane							1
Isophorone	4	4	1	4	2		1
Isopropyl Acetate	4	4	1	4	4	4	1
Isopropyl Alcohol (IPA)	2	1	1	1	1	2	1
Isopropylamine							1
Isopropyl Chloride	4	4	4	1	4	2	1
Isopropyl Ether	2	4	4	4	4	3	1
Isovaleric Acid							1
JIS Lube Oil #1							1
JP-3 (MIL-T-5624)	1		4	1	2		1
JP-4 (MIL-T-5624)	1	4	4	1	2	2	1
JP-5 (MIL-T-5624)	1	4	4	1	2	2	1
JP-6 (MIL-F-25656)	1	4	4	1	2	2	1
JP-8 (MIL-T-83133)	4	4	4	1	2	2	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
JP-9 (MIL-F-81912)	3	4	4	1		2	1
JP-10	3	4	4	1		1	1
JPX (MIL-F-25604)	1		4	4	2		1
KEL-F Liquids	1	1	1	2	3	2	3
Kerosene	1	4	4	1	2	1	1
Lacquer Solvents	4	4	4	4	4	4	1
Lacquers	4	4	4	4	4	4	1
Lactams (Amino Acids)	4	-	2	4	3	4	1
Lactic Acid (Cold)	1	1	1	1		1	1
Lactic Acid (Hot)	4	2	4	1		2	1
Lard (Animal Fats)	1	2	2	1	1	1	1
Lauric Acid							1
Lavender Oil	2	4	4	1	1	2	1
Lead Acetate	2	4	1	4	4	4	1
Lead Arsenate							1
Lead Azide							1
Lead Bromide							1
Lead Carbonate							1
Lead Chloride							1
Lead Chromate							1
Lead Dioxide							1
Lead Linoleate							1
Lead Naphthenate							1
Lead Nitrate	1	2	1	1	2	1	1
Lead Oxide, Red	1		1	1	1		1
Ligroin	1	4	4	1	2	1	1
Lime Bleach	1	2	1	1	1	1	1
Lime-Sulfur Solution	4	1	1	1		1	1
LINDOL Hydraulic Fluid	4	3	1	2	1	3	1
Linoleic Acid	2	2	4	2	1	-	1
Linseed Oil	1	1	3	1	1	1	1
Liquid Oxygen	4	4	4	4	4	4	2*
Liquified Petroleum Gas (LPG)	1	3	4	1	2	3	1
Liquor	1		1	1	1		1
Lithium Bromide, Brine							1
Lithium Carbonate							1
Lithium Chloride							1
Lithium Citrate							1
Lithium Hydroxide	2		1	3	1		1
Lithium Hypochlorite							1
Lithium Nitrate							1
Lithopone							1
Lubricating Oils, Diester	2	4	4	1	2	2	1
Lubricating Oils, Petroleum	1	4	4	1	1	1	1
Lye	2	2	1	2	1	2	1
Magnesium Chloride	1	1	1	1	1	1	1
Magnesium Hydroxide	2	-	1	2	1	-	1

	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
<b>Chemical</b>							
Magnesium Salts	1	1	1	1	1	1	1
Magnesium Sulfate	1	1	1	1		1	1
Magnesium Sulfite	1	1	1	1		1	1
MALATHION	2	4	4	1		2	1
Maleic Acid	4	-	4	1	1	-	1
Maleic Anhydride	4	-	4	1	1	-	1
Maleic Hydrazide							1
Malic Acid	1	2	4	1	1	1	1
Mandelic Acid							1
Manganese Acetate							1
Manganese Carbonate							1
Manganese Dioxide							1
Manganese Gluconate							1
Manganese Hypophosphite							1
Manganese Linoleate							1
Manganous Chloride							1
Manganous Phosphate							1
Manganous Sulfate, Aqueous							1
Mannitol							1
MEA (Ethanolamine)	4	2	2	4		4	1
Mercaptobenzothiazole (MBT)	3		1	1	1		1
Mercuric Acetate							1
Mercuric Chloride	1	-	1	1	1	-	1
Mercuric Cyanide							1
Mercuric Iodide							1
Mercuric Nitrate							1
Mercuric Sulfate							1
Mercurous Nitrate, Hydrated							1
Mercury	1	-	1	1	1	-	1
Mercury Fulminate							1
Mercury Vapour	1	-	1	1	1	-	1
Mesityl Oxide	4	4	2	4	4	4	1
Metaldehyde							1
Methacrylic Acid	3	4	2	3	2	4	1
Methane	1	4	4	1	2	2	1
Methanethiol							1
Methoxychlor							1
Methyl Abietate							1
Methyl Acetate	4	4	2	4	4	4	1
Methyl Acetoacetate	4	2	2	4	4	4	1
Methylacetophenone							1
Methyl Acrylate	4	4	2	4	4	4	1
Methylal							1
Methyl Alcohol (Methanol)	1	1	1	2*	1	1	1
Methylallyl Chloride							1
Methylamine							1
Methylamyl Acetate							1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Methylamyl Alcohol							1
Methyl n-Amylketone							1
Methyl Anthranilate							1
Methyl Benzoate	4	4	4	1	2	1	1
Methylbenzyl Alcohol							1
Methyl Bromide	2	-	4	1	2	1	1
2-Methyl 2-Butanethiol	4	4	4	1	1	-	1
Methyl Butyl Ketone	4	4	1	4	4	4	1
Methyl Carbonate	4	4	4	1	2	2	1
Methyl CELLOSOLVE	3	4	2	4	1	4	1
Methyl Cellulose	2	2	2	4	1	4	1
Methyl Chloride	4	4	3	2	4	2	1
Methyl Chloroacetate							1
Methyl Chloroform	4	4	4	2	4	2	1
Methyl Chloroformate	4	4	4	1	1	2	1
Methyl Chlorosilane							1
Methyl Cyclohexanone							1
Methylcyclopentane	4	4	4	1	2	2	1
Methylene Bromide	2	-	4	1		1	1
Methylene Chloride	4	4	4	2		2	1
Methylene Iodide							1
Methyl Ether	1	1	2	1	4	1	1
Methyl Ethyl Ketone (MEK)	4	4	1	4	4	4	1
Methyl Ethyl Ketone Peroxide	4	2	4	4		4	1
Methyl Formate	4	-	2	4	4	-	1
Methyl Hexyl Ketone							1
Methyl Iodide							1
Methyl Isobutyl Ketone (MIBK)	4	4	3	4	4	4	1
Methyl Isocyanate							1
Methyl Isopropyl Ketone	4	4	2	4		4	1
Methyl Lactate							1
Methyl Mercaptan	-	-	1	-		-	1
Methyl Methacrylate	4	4	4	4	4	4	1
Methyl Oleate	4	-	2	1	1	2	1
Methylpentadiene							1
Methyl Phenylacetate							1
Methylpyrrolidine							1
n-Methyl 2-Pyrrolidone	-	2	2	2		2	1
Methyl Salicylate	4	-	2	-		-	1
Methylsulfuric Acid							1
Methyltertiary Butyl Ether (MTBE)	3		3	4	2		1
MIL-F-25558 (RJ-1)	1	4	4	1	1	1	1
MIL-F-25656 (JP-6)	1	4	4	1		2	1
MIL-F-81912 (JP-9)	3	4	4	1		2	1
MIL-F-82522 (RJ-4)	2	4	4	1		1	1
MIL-H-8446 (MLO-8515)	2	4	4	1	1	1	1
MIL-L-23699 LUBRICANTS	2	4	4	1	1	2	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Aflas	Fluorosilicone	Perfluoroelastomer
MIL-L-7808 LUBRICANTS	2	4	4	1	1	2	1
MIL-R-25576 (RP-1)	1	4	4	1	1	1	1
MIL-S-3136 Type I Fuel	1	4	4	1		1	1
MIL-S-3136 Type II Fuel	2	4	4	1		2	1
MIL-S-3136 Type III Fuel	2	4	4	1		2	1
MIL-S-3136 Type IV Oil, High Swell	1	2	4	1		1	1
MIL-S-3136 Type IV Oil, Low Swell	1	3	4	1		1	1
MIL-S-3136 Type V Oil, Medium Swell	1	2	4	1		1	1
MIL-T-5624 (JP-3, JP-4, JP-5)	1	4	4	1	2	2	1
MIL-T-83133 (JP-8)	1	4	4	1	2	2	1
Milk	1	1	1	1	1	1	1
Mineral Oil	1	2	3	1	1	1	1
Mixed Acid Etchants	4	4	4	3	3	4	1*
MLO-7277, 7557	3	4	4	1	1	3	1
MLO-8200, 8515 (MIL-H-8446)	2	4	4	1	1	1	1
MOBIL DELVAC 1100, 1110, 1120, 1130	1	1	4	1	1		1
MOBIL HF	1		4	1	2		1
MOBIL NIVAC 20,30	1		1	1	1		1
MOBIL THERM 600	1		4	1	1		1
MOBILJET II LUBRICANT							1
Molybdenum Disulfide Grease	1		4	1	1		1
Monomethyl Hydrazine	2	4	1	4	2	-	2
Monomethylaniline	4	-	4	2	2	-	1
Monovinyl Acetylene	1	2	1	1	3	-	1
MOPAR BRAKE FLUID	3	3	1	4	1	4	1
Myristic Acid							1
Naphtha	2	4	4	1	2	2	1
Naphthalene	4	4	4	1	3	1	1
Naphthalenesulfonic Acid							1
Naphthenic Acid	2	4	4	1	1	1	1
Naphthylamine							1
Natural Gas	1	2	4	1	1	3	1
Neatsfoot Oil	1	2	2	1	1	1	1
Neon	1	1	1	1	1	1	1
Neville-Winter Acid	4	4	2	1	1	2	1
Niacinamide							1
Nickel Acetate	2	4	1	4	4	4	1
Nickel Ammonium Sulfate	1		1	1	1		1
Nickel Chloride	1	1	1	1	1	1	1
Nickel Cyanide							1
Nickel Nitrate							1
Nickel Sulfate	1	1	1	1	1	1	1
Nicotine							1
Nitric Acid (0-50%)	4	2	3	1	2	2	1*
Nitric Acid (70%)	4	4	4	2	3	4	1*
Nitric Acid, Red Fuming	4	4	4	3	3	4	1*
p-Nitroaniline							1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Nitrobenzene	4	4	4	2	1	4	1
p-Nitrobenzoic Acid							1
Nitrocellulose							1
Nitroethane	4	4	2	4		4	1
Nitrogen	1	1	1	1		1	1
Nitrogen Dioxide				4			1
Nitrogen Oxides							1
Nitrogen Tetroxide	4	4	4	4	3	4	2
Nitrogen Trifluoride							1
Nitroglycerin							1
Nitromethane	4	4	2	4	3	4	1
p-Nitrophenol							1
2-Nitropropane	4	4	2	4	2	4	1
Nitrosyl Chloride							1
Nitrosylsulphuric Acid							1
p-Nitrotoluene							1
o-Nitrotoluene							1
Nitrous Acid							1
Nitrous Oxide	1	1	1	1		-	1
NMP (n-Methyl 2-Pyrrolidone)	-	2	2	2		2	1
Nonane							1
Octachloro Toluene	4	4	4	1		2	1
n-Octadecane	1	4	4	1	1	1	1
Octafluorocyclobutane		-	1	2		-	2
Octafluoropropane							2
Octanal							1
n-Octane	2	4	4	1		2	1
n-Octyl Acetate			2				1
n-Octyl Alcohol	2	2	1	1	1	2	1
n-Octyl Chloride							1
Olefins							1
Oleic Acid	3	4	4	2	1	-	1
Oleum (Fuming Sulfuric Acid)	3	4	4	1	1	2	1
Oleyl Alcohol							1
Olive Oil	1	3	2	1	1	1	1
Orthochloro Ethyl Benzene	4	4	4	1	4	2	1
Oxalic Acid	2	2	1	1	1	1	1
Oxygen, Gas (Hot)	4	2	4	3	4	1	1*
Oxygen, Liquid	4		4	4	4		2*
Ozonated Deionized Water			2	1*			1
Ozone	4	1	1	1	1	1	1
Paint Thinner-DUCO	4	4	4	2	3	2	1
Palmitic Acid (Hexadecanoic Acid)	1	4	2	1	1	1	1
Paraffins							1
Paraldehyde							1
Par-al-Ketone	4	4	4	4	4	4	2
Parathion							1



Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Peanut Oil	1	1	3	1	1	1	1
Pelargonic Acid							1
Penicillin							1
Pentachloroethane							1
Pentachlorophenol							1
Pentaerythritol	1		1	1	1		1
Pentaerythritol Tetranitrate (PETN)							1
Pentafluoroethane (FC 125)							2
n-Pentane	1	4	4	1		3	1
Peracetic Acid							1
Perchloric Acid	4	4	2	1	1	1	1*
Perchloroethylene	2	4	4	1	4	2	1
Petrolatum	1	4	4	1		1	1
Petroleum < 121 °C/250 °F	1	2	4	1	1	2	1
Petroleum > 121 °C/250 °F	4	4	4	2	2	4	1
Petroleum, Crude	1	4	4	1	1	1	1
Phenethyl Alcohol							1
Phenetole	4	4	4	4	4	4	1
Phenol	4	4	4	1	1	2	1
Phenolsulfonic Acid				1			1
Phenylacetamide							1
Phenyl Acetate							1
Phenylbenzene	4	4	4	1	3	2	1
p-Phenylenediamine				4			1
Phenylethyl Ether	4	4	4	4	4	4	1
Phenylhydrazine	4	4	4	1	1	-	1
Phenylmercuric Acetate							1
Phorone	4	4	1	4	4	4	1
Phosgene							1
Phosphine							1
Phosphoric Acid (20%)	4	3	1	1	1	2	1
Phosphoric Acid (80%)	4	4	1	1	1	3	1
Phosphoric Etchants							1
Phosphorous Oxychloride							1
Phosphorous Tribromide							1
Phosphorous Trichloride	4	-	1	1	1	1	1
Phosphorous, Molten							1
Phthalic Acid							1
Phthalic Anhydride	3		2	4	3		1
Pickling Solution	4	4	3	2	2	4	1
Picric Acid	2	4	2	1		2	1
Pine Oil	1	4	4	1		1	1
Pine Tar							1
Pinene	2	4	4	1	1	1	1
Piperazine							1
Piperidine	4	4	4	4		4	1
Piranha							1

	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Aflas	Fluorosilicone	Perfluoroelastomer
<b>Chemical</b>							
Plating Solution, Chrome	4	4	2	1	1	2	1
Plating Solution, others	1	4	1	1	1	-	1
Polyethylene Glycol	2		1	3	1		1
Polyglycerol							1
Polyvinyl Acetate Emulsion	1	-	1	3	1	-	1
Potassium, Molten							4
Potassium, Acetate	2	4	1	4		4	1
Potassium Bicarbonate							1
Potassium Bifluoride							1
Potassium Bisulfate							1
Potassium Bisulfite							1
Potassium Bitartrate							1
Potassium Bromide							1
Potassium Carbonate							1
Potassium Chlorate							1
Potassium Chloride	1	1	1	1	1	1	1
Potassium Chromate							1
Potassium Citrate							1
Potassium Copper Cyanide	1	1	1	1	1	1	1
Potassium Cyanate							1
Potassium Cyanide	1	1	1	1	1	1	1
Potassium Dichromate	1	1	1	1	1	1	1
Potassium Ferricyanide							1
Potassium Fluoride							1
Potassium Glucocyanate							1
Potassium Hydroxide	2	3	1	4	1	3	1*
Potassium Iodide							1
Potassium Iodate							1
Potassium Nitrate	1	1	1	1	1	1	1
Potassium Nitrite							1
Potassium Oxalate							1
Potassium Perchlorate							1
Potassium Permanganate				3			1
Potassium Peroxide							1
Potassium Persulfate							1
Potassium Phosphate, Dibasic							1
Potassium Pyrosulfate							1
Potassium Silicate							1
Potassium Sodium Tartrate							1
Potassium Stannate							1
Potassium Stearate							1
Potassium Sulfate	1	1	1	1	1	1	1
Potassium Sulfide							1
Potassium Sulfite	1	1	1	1		1	1
Potassium Tartrate							1
Potassium Thiocyanate							1
Potassium Thiosulfate							1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
PRESTONE Antifreeze	1	1	1	1	2	1	1
PRL-High Temp, Hydraulic Oil	2	2	4	1	1	1	1
Producer Gas	1	2	4	1	1	2	1
Propane	1	4	4	1	1	2	1
Propionaldehyde							1
n-Propyl Acetate	4	4	2	4	4	4	1
n-Propyl Acetone	4	4	1	4	4	4	1
Propyl Alcohol	1	1	1	1	1	1	1
n-Propylamine							2
n-Propylbenzene							1
Propylene	4	4	4	1	1	2	1
Propylene Chlorohydrin							1
Propylene Dichloride							1
Propylene Glycol	1		1	1	1		1
Propylene Glycol Methyl Ether Acetate (PGMEA)							1
Propylene Imine							1
Propylene Oxide	4	4	2	4	4	4	1
n-Propyl Nitrate	4	4	2	1*		4	1
n-Propyl Propionate	4	4	2	4		4	1
PRS-3000	-	2	2	2	-	2	1
PYDRAUL 115E	4	4	1	1	1	3	2
PYDRAUL 230C, 312C,& 540C	4	4	4	1	1	4	2
PYRANOL TRANSFORMER OIL	1	4	4	1	1	1	1
Pyridine	4	4	2	4	2	4	1
Pyrogallol							1
PYROGARD 42, 43, 53 & 55	4	4	1	1	2	4	1
PYROGARD C & D (Water & Petroleum)	1	3	4	1	1	2	1
Pyroligneous Acid	4	-	2	4	4	4	1
PYROLUBE	4	2	2	1	1	2	1
Pyrosulfuryl Chloride							1
Pyrrole	4	2	4	4		4	1
Pyruvic Acid							1
Quinine							1
Quinizarin							1
Quinoline							1
Quinone							1
Radiation	3	2	1	4	1	4	2
Raffinate							1
Rapeseed Oil	2	4	1	1	1	1	1
RED LINE 100 OIL	1	4	4	1	1	1	1
Resorcinol	4		4	1	1		1
Rhodium							1
Riboflavin							1
Ricinoleic Acid							1
RJ-1 (MIL-F-25558)	1	4	4	1	1	1	1
RJ-4 (MIL-F-82522)	2	4	4	1	1	1	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Rosin							1
RP-1 (MIL-R-25576)	1	4	4	1	1	1	1
Saccharin Solution							1
Sal Ammoniac	1	2	1	1	1	1	1
Salicylic Acid	2	-	1	1	1	1	1
Salt Water	1	1	1	2	1	1	1
SANTOSAFE 300	4	1	3	1	1	1	1
Sebacic Acid							1
Selenic Acid							1
Selenious Acid							1
Sewage	1	1	1	2	1	1	1
SHELL TELLUS 27 (Petro Base)	1	4	4	1	1	1	1
SHELL UMF (5% Aromatic)	1	4	4	1	1	1	1
Shellac							1
Silane							1
Silicate Esters	2	4	4	1	1	1	1
Silicon Tetrachloride							2
Silicon Tetrafluoride							2
Silicone Oils	1	3	1	1	1	1	1
Silver Bromide							1
Silver Chloride							1
Silver Cyanide							1
Silver Nitrate	2	1	1	1	1	1	1
Silver Oxide							1
Silver Sulfate							1
SINCLAIR OPALINE CX-EP LUBE	1	4	4	1	1	2	1
SKYDROL 500	4	3	1	4	1	3	1
SKYDROL 7000	4	3	1	2	1	3	1
Soap Solutions	1	1	1	2	1	1	1
SOCONY PD959B VACUUM	1	4	4	1	1	1	1
Soda Ash	1	1	1	1	1	1	1
Sodium, Molten							4
Sodium Abietate							1
Sodium Acetate	2	4	1	4	2	4	1
Sodium Aluminate							1
Sodium Antimonate							1
Sodium Arsenate							1
Sodium Arsenite							1
Sodium Benzoate							1
Sodium Bicarbonate	1	1	1	1	1	1	1
Sodium Bifluoride							1
Sodium Bisulfate	1	1	1	1	1	1	1
Sodium Bisulfite	1	1	1	1	1	1	1
Sodium Bitartrate							1
Sodium Borate	1	1	1	1	1	1	1
Sodium Bromate							1
Sodium Bromide							1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Sodium Chlorate							1
Sodium Chloride	1	1	1	1	1	1	1
Sodium Chlorite							1
Sodium Chloroacetate							1
Sodium Chromate							1
Sodium Citrate							1
Sodium Cyanate							1
Sodium Cyanide	1	1	1	2	1	1	1
Sodium Diacetate							1
Sodium Dichromate							1
Sodium Ethylate							1
Sodium Ferricyanide							1
Sodium Ferrocyanide							1
Sodium Fluoride							1
Sodium Fluorosilicate							1
Sodium Glutamate							1
Sodium Hydride							1
Sodium Hydrosulfide							1
Sodium Hydroxide	2	2	1	3*	1	2	1*
Sodium Hypochlorite	2	2	2	1	1	2	1
Sodium Hypophosphite							1
Sodium Iodide							1
Sodium Lactate							1
Sodium Metaphosphate	1	-	1	1	1	1	1
Sodium Metasilicate	1	-	1	1	1	1	1
Sodium Methylate							1
Sodium Nitrate	2	4	1	1	1	-	1
Sodium Oleate							1
Sodium Orthosilicate							1
Sodium Oxalate							1
Sodium Perborate	2	2	1	1	1	1	1
Sodium Percarbonate							1
Sodium Perchlorate							1
Sodium Peroxide	2	4	1	1	1	1	1
Sodium Persulfate							1
Sodium Phenate							1
Sodium Phosphate, Dibasic	1	4	1	1	1	-	1
Sodium Plumbite							1
Sodium Pyrophosphate							1
Sodium Salicylate							1
Sodium Salts	1	1	1	1	1	1	1
Sodium Sesquisilicate							1
Sodium Silicate	1	-	1	1	1	-	1
Sodium Stannate							1
Sodium Stearate							1
Sodium Sulfate Decahydrate	4	-	2	1	1	1	1
Sodium Sulfate, Anhydrous	1	1	1	1		1	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Sodium Sulfide							1
Sodium Sulfite	1	1	1	1	1	1	1
Sodium Tartrate							1
Sodium Tetrasulfide							1
Sodium Thiocyanate							1
Sodium Thiosulfate	2	1	1	1		1	1
Sodium Trichloroacetate							1
Sodium Tripolyphosphate	4		1	2	1		1
SOLVASOL 1, 2, & 3	1		4	1	4		1
Sorbitol							1
Sour Crude Oil	3	4	4	1		4	1
Sour Natural Gas	3	4	4	1		4	1
Soybean Oil	1	1	3	1	1	1	1
SR6 Fuel	2	4	4	1	1	1	1
Standard Clean 1 (SC-1)							1
Standard Clean 1 (SC-2)		4				4	1
Stannic Chloride	1	2	1	1	1	1	1
Stannous Bromide							1
Stannous Chloride	1	2	1	1	1	1	1
Stannous Fluoride							1
Stannous Sulfate							1
STAUFFER 7700	2	4	4	1	3	2	1
Steam < 149 °C/300 °F	4	3	1	2	2	4	1
Steam > 149 °C/300 °F	4	4	4	4	3	4	2
Stearic Acid	1	1	1	2	1	-	1
Stoddart Solvent (ASTM D-484-52)	1	4	4	1	2	1	1
Strontium Acetate							1
Strontium Carbonate							1
Strontium Chloride							1
Strontium Hydroxide							1
Strontium Nitrate							1
Styrene, Monomer	4	4	4	1*	4	3	1
Succinaldehyde							1
Succinic Acid							1
Sucrose Solution	1	1	1	1		1	1
Sulfamic Acid							1
Sulfanilic Acid							1
Sulfite Liquors	2	4	2	1		2	1
Sulfolane	2		1	2	1		1
Sulfur, Molten	4	3	3	1	1	1	1
Sulfur Chloride	4	3	4	1	1	1	1
Sulfur Dioxide	4	2	1	3	2	2	1
Sulfur Hexafluoride	2	2	1	3	3	2	2
Sulfur Tetrafluoride							2
Sulfur Trioxide, Dry	4	2	2	1	2	2	1
Sulfuric Acid (20% Oleum)	2	1	1	1		1	1
Sulfuric Acid (96%)	4	4	4	1*	4	4	1

	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
<b>Chemical</b>							
Sulfurous Acid	2	4	2	3	1		1
SUNOCO SAE 10	1	4	4	1	1	1	1
SUPERSHELL Gasoline	1	4	4	1	3	2	1
SWANFINCH EP Lubricant	1	4	4	1	2	1	1
Tallow							1
Tannic Acid	1	2	1	1	1	1	1
Tar	2	2	4	1	1	1	1
Tartaric Acid	1	1	2	1	1	1	1
TEOS (Tetraethylorthosilicate)	1	4	1	1		1	1
Terephthalic Acid							1
Terpineol	2	-	3	1	1	1	1
Terpinyl Acetate							1
Tetrabromoethane	4	4	4	1	3	2	1
Tetrabutyl Titanate	2	4	1	1	1	4	1
Tetrachloroethane	4	-	4	1	4	2	1
Tetrachloroethylene	2	4	4	1	4	2	1
Tetraethyl Lead	2	-	4	1	3	2	1
Tetrafluoroethane (FC 134a)							1
Tetrafluoromethane (FC 14)	1	4	1	1		-	1
Tetrahydrofuran (THF)	4	4	3	4	4	4	1
TETRALIN (Tetrahydronaphthalene)	4	4	4	1	4	1	1
Tetramethyl ammonium hydroxide (TMAH)							1
TEXACO 3450 GEAR OIL	1	4	4	1	1	1	1
TEXACO UNI-TEMP GREASE	1	2	4	1	1	1	1
TEXAMATIC 3525 Fluid	1	4	4	1	1	2	1
THERMINOL 55	2	4	4	1		-	1
Thioglycolic Acid							1
THIOLKOL TP-90B	4	-	1	1	1	2	1
THIOLKOL TP-95	4	-	1	1	1	2	1
Thionyl Chloride	3		2	1			1
Thiophene							1
Thiophosphoryl Chloride							1
Thiourea							1
Thorium Nitrate							1
Tidewater Oil BEEDOL	1	2	4	1	1	1	1
Titanic Acid							1
Titanium Dioxide							1
Titanium Sulfate							1
Titanium Tetrachloride	2	4	4	1	2	2	2
TMA (Trimethylamine)							2
TMAH (Tetramethyl Ammonium Hydroxide)							1
TMAI (Trimethylaluminum)							1
TMB (Trimethyl Borate)							1
TMCTS (Tetramethylcyclotetrasiloxane)							1
TMP (Trimethyl Phosphite)							1
TMPO (Trimethyl Phosphate)							1
Toluene	4	4	4	1*	4	2	1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Toluene Diisocyanate (TDI)	4	4	2	3	4	4	1
p-Toluenesulfonyl Chloride							1
p-Toluidine							1
Toluquinone							1
p-Tolaldehyde							1
Transformer Oil	1	2	4	1	1	1	1
Transmission Fluid Type A	1	2	4	1	1	1	1
Triacetin	2	-	1	4	4	4	1
Triallyl Phosphate	4	3	1	1	1	2	1
Tributoxyethyl Phosphate	4	-	1	1	1	2	1
Tributylamine							1
Tributyl Citrate							1
Tributyl Mercaptan	4	4	4	1		3	1
Tributyl Phosphate	4	4	1	4	2	4	1
Trichloroacetic Acid (TCA)	2	-	2	3	3	4	1
Trichloroacetyl Chloride							1
1,2,3-Trichlorobenzene							1
1,1,1-Trichloroethane	4	4	4	1	4	2	1
Trichloroethylene (TCE)	3	4	4	1	4	2	1
Trichlorofluoromethane (FC 11)	2	4	4	2	4	2	2
Trichlorophenylsilane							1
1,2,3-Trichloropropane							1
Trichlorosilane							1
Trichlorotrifluoroethane (FC 113)	2	4	4	2	4	4	2*
Tricresyl Phosphate	4	3	1	1*	1	2	1
Triethanolamine (TEA)	3	-	2	4	1	4	2
Triethylaluminum	4		3	3			1
Triethylamine							1
Triethylborane	4		3	1			1
Triethyl Borate							1
Triethylene Glycol (TEG)							1
Triethylenetriamine (TETA)							1
Triethyl Phosphate							1
Trifluoroacetic Acid							2
Trifluoroethane (FC 143a)	4	4	4	1	2	2	1
Trimethylaluminum (TMAI)							1
Trimethylamine (TMA)							2
Trimethyl Borate (TMB)							1
2,2,4-Trimethylpentane							1
Trimethyl Phosphate (TMPO)							1
Trimethyl Phosphite (TMP)							1
Trimethylolpropane							1
Trinitrotoluene (TNT)	4	-	4	2	2	2	1
Trioctyl Phosphate	4	3	2	2	1	2	1
Tritium							1
Tung Oil (China Wood Oil)	1	4	4	1	1	2	1
Tungsten Hexafluoride							1



Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Tungstic Acid							1
Turbine Oil No 15 (MIL-L-7808A)	2	4	4	1	1	2	1
Turpentine	1	4	4	1	1	2	1
UCON HYDROLUBE J-4	2	1	1	3	1	2	1
UCON OIL LB 385, 400X	1	1	1	4	1	1	1
UDMH (Unsymmetrical Dimethyl Hydrazine)	2	4	1	4	3	4	2
UNIVIS 40 Hydraulic Fluid	1	4	4	1	1	1	1
UNIVOLT No 35 (Mineral Oil)	1	4	4	1	1	1	1
UPDI (Ultra Pure Deionized Water)			2	1*	2		1
Uranium Hexafluoride							2
Urea							1
Uric Acid							1
n-Valeraldehyde							1
Valeric Acid							1
Vanadium Pentoxide							1
Varnish	2	4	4	1	2	2	1
Vegetable Oils	1	1	3	1	1	1	1
VERSILUBE F44, F50 & F55	1	3	1	1	1	1	1
Vinegar	2	3	1	2		3	1
Vinyl Acetate	4		2	4	4		1
Vinyl Chloride (VC)	4	-	4	1		-	1
Vinyl Fluoride				2			1
Vinylidene Chloride							1
Vinylpyridene							1
VV-H910	3	2	1	1	1	2	1
WAGNER 21B Brake Fluid	3	3	1	4	1	4	1
Water	1	1	1	1	1	1	1
WEMCO C	1	4	4	1	1	1	1
Whiskey & Wines	1	1	1	1	1	1	1
White Pine Oil	2	4	4	1	1	1	1
Wolmar Salts	1	1	1	1	1	1	1
Xenon	1	1	1	1	1	1	1
Xylene	4	4	4	2	4	1	1
Xylidene	3	4	4	4	2	4	1
Xylol	4	4	4	1	4	1	1
Zeolites	5	-	1	1	1	1	1
Zinc Acetate	2	4	1	4	3	4	1
Zinc Ammonium Chloride							1
Zinc Chloride	2	1	1	1	1	1	1
Zinc Chromate							1
Zinc Cyanide							1
Zinc Diethyldithiocarbamate							1
Zinc Fluorosilicate							1
Zinc Hydrosulfite							1
Zinc Naphthenate							1
Zinc Nitrate							1
Zinc Oxide							1

Chemical	Nitrile	Silicone	EPDM	Viton Fluoroelastomer	Atlas	Fluorosilicone	Perfluoroelastomer
Zinc Phenolsulfonate							1
Zinc Phosphate							1
Zinc Salts	1	1	1	1	1	1	1
Zinc Stearate							1
Zinc Sulfate	1	1	1	1	1	1	1
Zinc Sulfide							1
Zirconium Nitrate							1