

Appendix

Table 1: **TECH** buffers

TECH buffers			
TEMP °C	Buffer 4.01	Buffer 7	Buffer 10
5	3.999	7.087	10.241
10	3.998	7.053	10.155
15	3.999	7.031	10.116
20	4.002	7.011	10.047
25	4.006	6.996	9.998
30	4.011	6.985	9.952
35	4.018	6.976	9.925
40	4.031	6.971	9.874
45	4.047	6.969	9.843
50	4.055	6.969	9.810

Table 2: **NIST** standard buffers

NIST standard buffers(DIN 19266)					
TEMP °C	Buffer 1.68	Buffer 4.01	Buffer 6.86	Buffer 9.18	Buffer 12.45
5	1.668	4.004	6.951	9.395	13.207
10	1.670	4.000	6.923	9.332	13.003
15	1.672	3.999	6.900	9.276	12.810
20	1.675	4.001	6.881	9.225	12.627
25	1.679	4.006	6.865	9.180	12.454
30	1.683	4.012	6.853	9.139	12.289
35	1.688	4.021	6.844	9.102	12.133
40	1.694	4.031	6.838	9.068	11.984
45	1.700	4.043	6.834	9.038	11.410
50	1.707	4.057	6.833	9.011	11.705

Table 3: **Define** (Built then in by end-user) standard buffers

Define standard buffers table					
TEMP °C	Buffer 1	Buffer 2	Buffer 3	Buffer 4	Buffer 5
5	2.010	4.040	7.070	9.160	12.410
10	2.010	4.020	7.050	9.110	12.260
15	2.000	4.010	7.020	9.050	12.100
20	2.000	4.000	7.000	9.000	12.000
25	2.000	4.010	6.980	8.950	11.880
30	2.000	4.010	6.980	8.910	11.720
35	2.000	4.010	6.960	8.880	11.670
40	2.000	4.010	6.950	8.850	11.540
45	2.000	4.010	6.950	8.820	11.440
50	2.000	4.000	6.950	8.790	11.330