

Tabela FEM x Temperatura



ITS 90 – Junta de referência 0°C

TIPO R										
°C	0	1	2	3	4	5	6	7	8	9
0	0.000	0.005	0.011	0.016	0.021	0.027	0.032	0.038	0.043	0.049
10	0.054	0.060	0.065	0.071	0.077	0.082	0.088	0.094	0.100	0.105
20	0.111	0.117	0.123	0.129	0.135	0.141	0.147	0.153	0.159	0.165
30	0.171	0.177	0.183	0.189	0.195	0.201	0.207	0.214	0.220	0.226
40	0.232	0.239	0.245	0.251	0.258	0.264	0.271	0.277	0.284	0.290
50	0.296	0.303	0.310	0.316	0.323	0.329	0.336	0.343	0.349	0.356
60	0.363	0.369	0.376	0.383	0.390	0.397	0.403	0.410	0.417	0.424
70	0.431	0.438	0.445	0.452	0.459	0.466	0.473	0.480	0.487	0.494
80	0.501	0.508	0.516	0.523	0.530	0.537	0.544	0.552	0.559	0.566
90	0.573	0.581	0.588	0.595	0.603	0.610	0.618	0.625	0.632	0.640
100	0.647	0.655	0.662	0.670	0.677	0.685	0.693	0.700	0.708	0.715
110	0.723	0.731	0.738	0.746	0.754	0.761	0.769	0.777	0.785	0.792
120	0.800	0.808	0.816	0.824	0.832	0.839	0.847	0.855	0.863	0.871
130	0.879	0.887	0.895	0.903	0.911	0.919	0.927	0.935	0.943	0.951
140	0.959	0.967	0.976	0.984	0.992	1.000	1.008	1.016	1.025	1.033
150	1.041	1.049	1.058	1.066	1.074	1.082	1.091	1.099	1.107	1.116
160	1.124	1.132	1.141	1.149	1.158	1.166	1.175	1.183	1.191	1.200
170	1.208	1.217	1.225	1.234	1.242	1.251	1.260	1.268	1.277	1.285
180	1.294	1.303	1.311	1.320	1.329	1.337	1.346	1.355	1.363	1.372
190	1.381	1.389	1.398	1.407	1.416	1.425	1.433	1.442	1.451	1.460
200	1.469	1.477	1.486	1.495	1.504	1.513	1.522	1.531	1.540	1.549
210	1.558	1.567	1.575	1.584	1.593	1.602	1.611	1.620	1.629	1.639
220	1.648	1.657	1.666	1.675	1.684	1.693	1.702	1.711	1.720	1.729
230	1.739	1.748	1.757	1.766	1.775	1.784	1.794	1.803	1.812	1.821
240	1.831	1.840	1.849	1.858	1.868	1.877	1.886	1.895	1.905	1.914
250	1.923	1.933	1.942	1.951	1.961	1.970	1.980	1.989	1.998	2.008
260	2.017	2.027	2.036	2.046	2.055	2.064	2.074	2.083	2.093	2.102
270	2.112	2.121	2.131	2.140	2.150	2.159	2.169	2.179	2.188	2.198
280	2.207	2.217	2.226	2.236	2.246	2.255	2.265	2.275	2.284	2.294
290	2.304	2.313	2.323	2.333	2.342	2.352	2.362	2.371	2.381	2.391
300	2.401	2.410	2.420	2.430	2.440	2.449	2.459	2.469	2.479	2.488
310	2.498	2.508	2.518	2.528	2.538	2.547	2.557	2.567	2.577	2.587
320	2.597	2.607	2.617	2.626	2.636	2.646	2.656	2.666	2.676	2.686
330	2.696	2.706	2.716	2.726	2.736	2.746	2.756	2.766	2.776	2.786
340	2.796	2.806	2.816	2.826	2.836	2.846	2.856	2.866	2.876	2.886
350	2.896	2.906	2.916	2.926	2.937	2.947	2.957	2.967	2.977	2.987
360	2.997	3.007	3.018	3.028	3.038	3.048	3.058	3.068	3.079	3.089
370	3.099	3.109	3.119	3.130	3.140	3.150	3.160	3.171	3.181	3.191
380	3.201	3.212	3.222	3.232	3.242	3.253	3.263	3.273	3.284	3.294
390	3.304	3.315	3.325	3.335	3.346	3.356	3.366	3.377	3.387	3.397
400	3.408	3.418	3.428	3.439	3.449	3.460	3.470	3.480	3.491	3.501
410	3.512	3.522	3.533	3.543	3.553	3.564	3.574	3.585	3.595	3.606
420	3.616	3.627	3.637	3.648	3.658	3.669	3.679	3.690	3.700	3.711
430	3.721	3.732	3.742	3.753	3.764	3.774	3.785	3.795	3.806	3.816
440	3.827	3.838	3.848	3.859	3.869	3.880	3.891	3.901	3.912	3.922

Tabela FEM x Temperatura



ITS 90 – Junta de referência 0°C

°C	0	1	2	3	4	5	6	7	8	9
450	3.933	3.944	3.954	3.965	3.976	3.986	3.997	4.008	4.018	4.029
460	4.040	4.050	4.061	4.072	4.083	4.093	4.104	4.115	4.125	4.136
470	4.147	4.158	4.168	4.179	4.190	4.201	4.211	4.222	4.233	4.244
480	4.255	4.265	4.276	4.287	4.298	4.309	4.319	4.330	4.341	4.352
490	4.363	4.373	4.384	4.395	4.406	4.417	4.428	4.439	4.449	4.460
500	4.471	4.482	4.493	4.504	4.515	4.526	4.537	4.548	4.558	4.569
510	4.580	4.591	4.602	4.613	4.624	4.635	4.646	4.657	4.668	4.679
520	4.690	4.701	4.712	4.723	4.734	4.745	4.756	4.767	4.778	4.789
530	4.800	4.811	4.822	4.833	4.844	4.855	4.866	4.877	4.888	4.899
540	4.910	4.922	4.933	4.944	4.955	4.966	4.977	4.988	4.999	5.010
550	5.021	5.033	5.044	5.055	5.066	5.077	5.088	5.099	5.111	5.122
560	5.133	5.144	5.155	5.166	5.178	5.189	5.200	5.211	5.222	5.234
570	5.245	5.256	5.267	5.279	5.290	5.301	5.312	5.323	5.335	5.346
580	5.357	5.369	5.380	5.391	5.402	5.414	5.425	5.436	5.448	5.459
590	5.470	5.481	5.493	5.504	5.515	5.527	5.538	5.549	5.561	5.572
600	5.583	5.595	5.606	5.618	5.629	5.640	5.652	5.663	5.674	5.686
610	5.697	5.709	5.720	5.731	5.743	5.754	5.766	5.777	5.789	5.800
620	5.812	5.823	5.834	5.846	5.857	5.869	5.880	5.892	5.903	5.915
630	5.926	5.938	5.949	5.961	5.972	5.984	5.995	6.007	6.018	6.030
640	6.041	6.053	6.065	6.076	6.088	6.099	6.111	6.122	6.134	6.146
650	6.157	6.169	6.180	6.192	6.204	6.215	6.227	6.238	6.250	6.262
660	6.273	6.285	6.297	6.308	6.320	6.332	6.343	6.355	6.367	6.378
670	6.390	6.402	6.413	6.425	6.437	6.448	6.460	6.472	6.484	6.495
680	6.507	6.519	6.531	6.542	6.554	6.566	6.578	6.589	6.601	6.613
690	6.625	6.636	6.648	6.660	6.672	6.684	6.695	6.707	6.719	6.731
700	6.743	6.755	6.766	6.778	6.790	6.802	6.814	6.826	6.838	6.849
710	6.861	6.873	6.885	6.897	6.909	6.921	6.933	6.945	6.956	6.968
720	6.980	6.992	7.004	7.016	7.028	7.040	7.052	7.064	7.076	7.088
730	7.100	7.112	7.124	7.136	7.148	7.160	7.172	7.184	7.196	7.208
740	7.220	7.232	7.244	7.256	7.268	7.280	7.292	7.304	7.316	7.328
750	7.340	7.352	7.364	7.376	7.389	7.401	7.413	7.425	7.437	7.449
760	7.461	7.473	7.485	7.498	7.510	7.522	7.534	7.546	7.558	7.570
770	7.583	7.595	7.607	7.619	7.631	7.644	7.656	7.668	7.680	7.692
780	7.705	7.717	7.729	7.741	7.753	7.766	7.778	7.790	7.802	7.815
790	7.827	7.839	7.851	7.864	7.876	7.888	7.901	7.913	7.925	7.938
800	7.950	7.962	7.974	7.987	7.999	8.011	8.024	8.036	8.048	8.061
810	8.073	8.086	8.098	8.110	8.123	8.135	8.147	8.160	8.172	8.185
820	8.197	8.209	8.222	8.234	8.247	8.259	8.272	8.284	8.296	8.309
830	8.321	8.334	8.346	8.359	8.371	8.384	8.396	8.409	8.421	8.434
840	8.446	8.459	8.471	8.484	8.496	8.509	8.521	8.534	8.546	8.559
850	8.571	8.584	8.597	8.609	8.622	8.634	8.647	8.659	8.672	8.685
860	8.697	8.710	8.722	8.735	8.748	8.760	8.773	8.785	8.798	8.811
870	8.823	8.836	8.849	8.861	8.874	8.887	8.899	8.912	8.925	8.937
880	8.950	9.963	8.975	8.988	9.001	9.014	9.026	9.039	9.052	9.065
890	9.077	9.090	9.103	9.115	9.128	9.141	9.154	9.167	9.179	9.192

Tabela FEM x Temperatura



ITS 90 – Junta de referência 0°C

°C	0	1	2	3	4	5	6	7	8	9
900	9.205	9.218	9.230	9.243	9.256	9.269	9.282	9.294	9.307	9.320
910	9.333	9.346	9.359	9.371	9.384	9.397	9.410	9.423	9.436	9.449
920	9.461	9.474	9.487	9.500	9.513	9.526	9.539	9.552	9.565	9.578
930	9.590	9.603	9.616	9.629	9.642	9.655	9.668	9.681	9.694	9.707
940	9.720	9.733	9.746	9.759	9.772	9.785	9.798	9.811	9.824	9.837
950	9.850	9.863	9.876	9.889	9.902	9.915	9.928	9.941	9.954	9.967
960	9.980	9.993	10.006	10.019	10.032	10.046	10.059	10.072	10.085	10.098
970	10.111	10.124	10.137	10.150	10.163	10.177	10.190	10.203	10.216	10.229
980	10.242	10.255	10.268	10.282	10.295	10.308	10.321	10.334	10.347	10.361
990	10.374	10.387	10.400	10.413	10.427	10.440	10.453	10.466	10.480	10.493
1000	10.506	10.519	10.532	10.546	10.559	10.572	10.585	10.599	10.612	10.625
1010	10.638	10.652	10.665	10.678	10.692	10.705	10.718	10.731	10.745	10.758
1020	10.771	10.785	10.798	10.811	10.825	10.838	10.851	10.865	10.878	10.891
1030	10.905	10.918	10.932	10.945	10.958	10.972	10.985	10.998	11.012	11.025
1040	11.039	11.052	11.065	11.079	11.092	11.106	11.119	11.132	11.146	11.159
1050	11.173	11.186	11.200	11.213	11.227	11.240	11.253	11.267	11.280	11.294
1060	11.307	11.321	11.334	11.348	11.361	11.375	11.388	11.402	11.415	11.429
1070	11.442	11.456	11.469	11.483	11.496	11.510	11.524	11.537	11.551	11.564
1080	11.578	11.591	11.605	11.618	11.632	11.646	11.659	11.673	11.686	11.700
1090	11.714	11.727	11.741	11.754	11.768	11.782	11.795	11.809	11.822	11.836
1100	11.850	11.863	11.877	11.891	11.904	11.918	11.931	11.945	11.959	11.972
1110	11.986	12.000	12.013	12.027	12.041	12.054	12.068	12.082	12.096	12.109
1120	12.123	12.137	12.150	12.164	12.178	12.191	12.205	12.219	12.233	12.246
1130	12.260	12.274	12.288	12.301	12.315	12.329	12.342	12.356	12.370	12.384
1140	12.397	12.411	12.425	12.439	12.453	12.466	12.480	12.494	12.508	12.521
1150	12.535	12.549	12.563	12.577	12.590	12.604	12.618	12.632	12.646	12.659
1160	12.673	12.687	12.701	12.715	12.729	12.742	12.756	12.770	12.784	12.798
1170	12.812	12.825	12.839	12.853	12.867	12.881	12.895	12.909	12.922	12.936
1180	12.950	12.964	12.978	12.992	13.006	13.019	13.033	13.047	13.061	13.075
1190	13.089	13.103	13.117	13.131	13.145	13.158	13.172	13.186	13.200	13.214
1200	13.228	13.242	13.256	13.270	13.284	13.298	13.311	13.325	13.339	13.353
1210	13.367	13.381	13.395	13.409	13.423	13.437	13.451	13.465	13.479	13.493
1220	13.507	13.521	13.535	13.549	13.563	13.577	13.590	13.604	13.618	13.632
1230	13.646	13.660	13.674	13.688	13.702	13.716	13.730	13.744	13.758	13.772
1240	13.786	13.800	13.814	13.828	13.842	13.856	13.870	13.884	13.898	13.912
1250	13.926	13.940	13.954	13.968	13.982	13.996	14.010	14.024	14.038	14.052
1260	14.066	14.081	14.095	14.109	14.123	14.137	14.151	14.165	14.179	14.193
1270	14.207	14.221	14.235	14.249	14.263	14.277	14.291	14.305	14.319	14.333
1280	14.347	14.361	14.375	14.390	14.404	14.418	14.432	14.446	14.460	14.474
1290	14.488	14.502	14.516	14.530	14.544	14.558	14.572	14.586	14.601	14.615
1300	14.629	14.643	14.657	14.671	14.685	14.699	14.713	14.727	14.741	14.755
1310	14.770	14.784	14.798	14.812	14.826	14.840	14.854	14.868	14.882	14.896
1320	14.911	14.925	14.939	14.953	14.967	14.981	14.995	15.009	15.023	15.037
1330	15.052	15.066	15.080	15.094	15.108	15.122	15.136	15.150	15.164	15.179
1340	15.193	15.207	15.221	15.235	15.249	15.263	15.277	15.291	15.306	15.320

Tabela FEM x Temperatura



ITS 90 – Junta de referência 0°C

°C	0	1	2	3	4	5	6	7	8	9
1350	15.334	15.348	15.362	15.376	15.390	15.404	15.419	15.433	15.447	15.461
1360	15.475	15.489	15.503	15.517	15.531	15.546	15.560	15.574	15.588	15.602
1370	15.616	15.630	15.645	15.659	15.673	15.687	15.701	15.715	15.729	15.743
1380	15.758	15.772	15.786	15.800	15.814	15.828	15.842	15.856	15.871	15.885
1390	15.899	15.913	15.927	15.941	15.955	15.969	15.984	15.998	16.012	16.026
1400	16.040	16.054	16.068	16.082	16.097	16.111	16.125	16.139	16.153	16.167
1410	16.181	16.196	16.210	16.224	16.238	16.252	16.266	16.280	16.294	16.309
1420	16.323	16.337	16.351	16.365	16.379	16.393	16.407	16.422	16.436	16.450
1430	16.464	16.478	16.492	16.506	16.520	16.534	16.549	16.563	16.577	16.591
1440	16.605	16.619	16.633	16.647	16.662	16.676	16.690	16.704	16.718	16.732
1450	16.746	16.760	16.774	16.789	16.803	16.817	16.831	16.845	16.859	16.873
1460	16.887	16.901	16.915	16.930	16.944	16.958	16.972	16.986	17.000	17.014
1470	17.028	17.042	17.056	17.071	17.085	17.099	17.113	17.127	17.141	17.155
1480	17.169	17.183	17.197	17.211	17.225	17.240	17.254	17.268	17.282	17.296
1490	17.310	17.324	17.338	17.352	17.366	17.380	17.394	17.408	17.423	17.437
1500	17.451	17.465	17.479	17.493	17.507	17.521	17.535	17.549	17.563	17.577
1510	17.591	17.605	17.619	17.633	17.647	17.661	17.676	17.690	17.704	17.718
1520	17.732	17.746	17.760	17.774	17.788	17.802	17.816	17.830	17.844	17.858
1530	17.872	17.886	17.900	17.914	17.928	17.942	17.956	17.970	17.984	17.998
1540	18.012	18.026	18.040	18.054	18.068	18.082	18.096	18.110	18.124	18.138
1550	18.152	18.166	18.180	18.194	18.208	18.222	18.236	18.250	18.264	18.278
1560	18.292	18.306	18.320	18.334	18.348	18.362	18.376	18.390	18.404	18.417
1570	18.431	18.445	18.459	18.473	18.487	18.501	18.515	18.529	18.543	18.557
1580	18.571	18.585	18.599	18.613	18.627	18.640	18.654	18.668	18.682	18.696
1590	18.710	18.724	18.738	18.752	18.766	18.779	18.793	18.807	18.821	18.835
1600	18.849	18.863	18.877	18.891	18.904	18.918	18.932	18.946	18.960	18.974
1610	18.988	19.002	19.015	19.029	19.043	19.057	19.071	19.085	19.098	19.112
1620	19.126	19.140	19.154	19.168	19.181	19.195	19.209	19.223	19.237	19.250
1630	19.264	19.278	19.292	19.306	19.319	19.333	19.347	19.361	19.375	19.388
1640	19.402	19.416	19.430	19.444	19.457	19.471	19.485	19.499	19.512	19.526
1650	19.540	19.554	19.567	19.581	19.595	19.609	19.622	19.636	19.650	19.663
1660	19.677	19.691	19.705	19.718	19.732	19.746	19.759	19.773	19.787	19.800
1670	19.814	19.828	19.841	19.855	19.869	19.882	19.896	19.910	19.923	19.937
1680	19.951	19.964	19.978	19.992	20.005	20.019	20.032	20.046	20.060	20.073
1690	20.087	20.100	20.114	20.127	20.141	20.154	20.168	20.181	20.195	20.208
1700	20.222	20.235	20.249	20.262	20.275	20.289	20.302	20.316	20.329	20.342
1710	20.356	20.369	20.382	20.396	20.409	20.422	20.436	20.449	20.462	20.475
1720	20.488	20.502	20.515	20.528	20.541	20.554	20.567	20.581	20.594	20.607
1730	20.620	20.633	20.646	20.659	20.672	20.685	20.698	20.711	20.724	20.736
1740	20.749	20.762	20.775	20.788	20.801	20.813	20.826	20.839	20.852	20.864
1750	20.877	20.890	20.902	20.915	20.928	20.940	20.953	20.965	20.978	20.990
1760	21.003	21.015	21.027	21.040	21.052	21.065	21.077	21.089	21.101	