RTD Tolerance Class Table (IEC 60751)

Basis: IEC 60751:2008 wire wound element tolerance classes: AA ± (0.1 + 0.0017 |t|), A ± (0.15 + 0.002 |t|), B ± (0.3 + 0.005 |t|), C ± (0.6 + 0.01 |t|) °C, each valid over its stated range.

instrumentationblog.in/downloads/engineering-reference-tables/rtd-tolerance-class-table/

Tolerance classes

Class	Formula (°C)	Wire wound range	Film range
AA	± (0.10 + 0.0017 |t|)	−50 to 250 °C	0 to 150 °C
A	± (0.15 + 0.002 |t|)	−100 to 450 °C	−30 to 300 °C
B	± (0.30 + 0.005 |t|)	−196 to 600 °C	−50 to 500 °C
C	± (0.60 + 0.01 |t|)	−196 to 600 °C	−50 to 600 °C

Tolerance at common temperatures (Pt100)

°C	AA ± °C	A ± °C	B ± °C	C ± °C	A ± Ω	B ± Ω
−196			1.28	2.56		0.552
−100		0.35	0.80	1.60	0.142	0.324
−50	0.18	0.25	0.55	1.10	0.099	0.218
0	0.10	0.15	0.30	0.60	0.059	0.117
50	0.18	0.25	0.55	1.10	0.096	0.212
100	0.27	0.35	0.80	1.60	0.133	0.303
150	0.35	0.45	1.05	2.10	0.168	0.392
200	0.44	0.55	1.30	2.60	0.202	0.478
250	0.53	0.65	1.55	3.10	0.235	0.561
300		0.75	1.80	3.60	0.267	0.641
350		0.85	2.05	4.10	0.298	0.718
400		0.95	2.30	4.60	0.327	0.793
450		1.05	2.55	5.10	0.356	0.864
500			2.80	5.60		0.933
600			3.30	6.60		1.061

Notes

- Values outside a class range are left blank: the class is not defined there.
- Limits shown are for wire wound elements; film elements have narrower ranges (see the first table).

Free download from instrumentationblog.in. Check values against the current edition of the standard for design work.