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Application Note 3010 Torr Scientific/Torr Decimal/mTorr/Micron Conversions

Description

Different applications and geographic locations tend to use different units of measurement when discussing vacuum and pressure measurements. This document shows the conversions between Torr scientific, Torr decimal, and mTorr/microns. Note that mTorr and microns are the same unit of measurement. An example conversion from Torr scientific to Torr decimal and mTorr/microns is shown below:

Example: $1.0\text{E-}03$ Torr scientific = 1.0×10^{-3} Torr = 1.0×0.001 Torr = 0.001 Torr decimal = 1 mTorr = 1 micron

Comparison Charts

Torr Scientific	Torr Decimal	mTorr/Microns
1.0E-03	0.001	1
2.0E-03	0.002	2
3.0E-03	0.003	3
4.0E-03	0.004	4
5.0E-03	0.005	5
6.0E-03	0.006	6
7.0E-03	0.007	7
8.0E-03	0.008	8
9.0E-03	0.009	9
1.0E-02	0.010	10
2.0E-02	0.020	20
3.0E-02	0.030	30
4.0E-02	0.040	40
5.0E-02	0.050	50
6.0E-02	0.060	60
7.0E-02	0.070	70
8.0E-02	0.080	80
9.0E-02	0.090	90
1.0E-01	0.100	100
2.0E-01	0.200	200
3.0E-01	0.300	300
4.0E-01	0.400	400
5.0E-01	0.500	500
6.0E-01	0.600	600
7.0E-01	0.700	700
8.0E-01	0.800	800
9.0E-01	0.900	900

Torr Scientific	Torr Decimal	mTorr/Microns
1.0E+00	1	1000
2.0E+00	2	2000
3.0E+00	3	3000
4.0E+00	4	4000
5.0E+00	5	5000
6.0E+00	6	6000
7.0E+00	7	7000
8.0E+00	8	8000
9.0E+00	9	9000
1.0E+01	10	10,000
2.0E+01	20	20,000
3.0E+01	30	30,000
4.0E+01	40	40,000
5.0E+01	50	50,000
6.0E+01	60	60,000
7.0E+01	70	70,000
8.0E+01	80	80,000
9.0E+01	90	90,000
1.0E+02	100	100,000
2.0E+02	200	200,000
3.0E+02	300	300,000
4.0E+02	400	400,000
5.0E+02	500	500,000
6.0E+02	600	600,000
7.0E+02	700	700,000
8.0E+02	800	800,000
9.0E+02	900	900,000
1.00E+03	1000	1,000,000