

Sales Tolerances for ArmaFlex® UT Tubes

UTT 1/2" Walls

Item	Nom Pipe Size	Pipe OD	Insulation ID (in)			Insulation Wall (in)			Calculated OD (in)			R Value
			Min.	Target	Max.	Min.	Target	Max.	Min.	Target	Max.	
UTT01412	3/16" Copper	0.250	0.310	0.345	0.380	0.360	0.423	0.485	1.030	1.190	1.350	3.3
UTT03812	1/4" Copper	0.375	0.440	0.480	0.520	0.360	0.423	0.485	1.160	1.325	1.490	3.0
UTT01212	3/8" Copper	0.500	0.560	0.600	0.640	0.380	0.443	0.505	1.320	1.485	1.650	2.9
UTT05812	1/2" Copper	0.625	0.710	0.750	0.790	0.400	0.463	0.525	1.510	1.675	1.840	2.9
UTT03412	5/8" Copper	0.750	0.810	0.860	0.910	0.420	0.483	0.545	1.650	1.825	2.000	2.9
UTT07812	3/4" Copper	0.875	0.940	0.995	1.050	0.430	0.493	0.555	1.800	1.980	2.160	2.9
UTT11812	1" Copper	1.125	1.200	1.255	1.310	0.450	0.513	0.575	2.100	2.280	2.460	2.9
UTT13812	1-1/4" Copper	1.375	1.450	1.510	1.570	0.460	0.523	0.585	2.370	2.555	2.740	2.8
UTT15812	1-1/2" Copper	1.625	1.710	1.770	1.830	0.470	0.533	0.595	2.650	2.835	3.020	2.8
UTT11012	1 1/2" IPS	1.900	1.970	2.030	2.090	0.480	0.543	0.605	2.930	3.115	3.300	2.7
UTT21812	2" Copper	2.125	2.220	2.280	2.340	0.490	0.553	0.615	3.200	3.385	3.570	2.8
UTT20012	2" IPS	2.375	2.470	2.540	2.610	0.500	0.563	0.625	3.470	3.665	3.860	2.8
UTT25812	2-1/2" Copper	2.625	2.720	2.800	2.880	0.500	0.563	0.625	3.720	3.925	4.130	2.8
UTT21012	2-1/2" IPS	2.875	2.980	3.060	3.140	0.500	0.563	0.625	3.980	4.185	4.390	2.8

UTT 3/4" Walls

Item	Nom Pipe Size	Pipe OD	Insulation ID (in)			Insulation Wall (in)			Calculated OD (in)			R Value
			Min.	Target	Max.	Min.	Target	Max.	Min.	Target	Max.	
UTT01434	3/16" Copper	0.250	0.310	0.345	0.385	0.590	0.653	0.715	1.490	1.650	1.815	5.6
UTT03834	1/4" Copper	0.375	0.440	0.480	0.520	0.590	0.653	0.715	1.620	1.785	1.950	5.0
UTT01234	3/8" Copper	0.500	0.560	0.600	0.640	0.620	0.683	0.745	1.800	1.965	2.130	4.8
UTT05834	1/2" Copper	0.625	0.710	0.750	0.790	0.660	0.723	0.785	2.030	2.195	2.360	4.9
UTT03434	5/8" Copper	0.750	0.810	0.860	0.910	0.680	0.743	0.805	2.170	2.345	2.520	4.8
UTT07834	3/4" Copper	0.875	0.940	0.995	1.050	0.700	0.763	0.825	2.340	2.520	2.700	4.8
UTT11834	1" Copper	1.125	1.200	1.255	1.310	0.740	0.803	0.865	2.680	2.860	3.040	4.8
UTT13834	1-1/4" Copper	1.375	1.450	1.510	1.570	0.750	0.813	0.875	2.950	3.135	3.320	4.6
UTT15834	1-1/2" Copper	1.625	1.710	1.770	1.830	0.750	0.813	0.875	3.210	3.395	3.580	4.5
UTT11034	1 1/2" IPS	1.900	1.970	2.030	2.090	0.750	0.813	0.875	3.470	3.655	3.840	4.3
UTT21834	2" Copper	2.125	2.220	2.280	2.340	0.750	0.813	0.875	3.720	3.905	4.090	4.2
UTT20034	2" IPS	2.375	2.470	2.540	2.610	0.750	0.813	0.875	3.970	4.165	4.360	4.2
UTT25834	2-1/2" Copper	2.625	2.720	2.800	2.880	0.750	0.813	0.875	4.220	4.425	4.630	4.1
UTT21034	2-1/2" IPS	2.875	2.980	3.060	3.140	0.750	0.813	0.875	4.480	4.685	4.890	4.1

UTT 1" Walls

Item	Nom Pipe Size	Pipe OD	Insulation ID (in)			Insulation Wall (in)			Calculated OD (in)			R Value
			Min.	Target	Max.	Min.	Target	Max.	Min.	Target	Max.	
UTT01410	3/16" Copper	0.250	0.310	0.345	0.385	0.750	0.813	0.875	1.810	1.970	2.135	7.3
UTT03810	1/4" Copper	0.375	0.440	0.480	0.520	0.750	0.813	0.875	1.940	2.105	2.270	6.5
UTT01210	3/8" Copper	0.500	0.560	0.600	0.640	0.790	0.853	0.915	2.140	2.305	2.470	6.3
UTT05810	1/2" Copper	0.625	0.710	0.750	0.790	0.830	0.893	0.955	2.370	2.535	2.700	6.3
UTT03410	5/8" Copper	0.750	0.810	0.860	0.910	0.850	0.913	0.975	2.510	2.685	2.860	6.1
UTT07810	3/4" Copper	0.875	0.940	0.995	1.050	0.880	0.943	1.005	2.700	2.880	3.060	6.1
UTT11810	1" Copper	1.125	1.200	1.255	1.310	0.920	1.013	1.105	3.040	3.280	3.520	6.3
UTT13810	1-1/4" Copper	1.375	1.450	1.510	1.570	0.970	1.063	1.155	3.390	3.635	3.880	6.3
UTT15810	1-1/2" Copper	1.625	1.710	1.770	1.830	1.000	1.093	1.185	3.710	3.955	4.200	6.3
UTT11010	1 1/2" IPS	1.900	1.970	2.030	2.090	1.000	1.093	1.185	3.970	4.215	4.460	6.0
UTT21810	2" Copper	2.125	2.220	2.280	2.340	1.000	1.093	1.185	4.220	4.465	4.710	5.9
UTT20010	2" IPS	2.375	2.470	2.540	2.610	1.000	1.093	1.185	4.470	4.725	4.980	5.8
UTT25810	2-1/2" Copper	2.625	2.720	2.800	2.880	1.000	1.093	1.185	4.720	4.985	5.250	5.7
UTT21010	2-1/2" IPS	2.875	2.980	3.060	3.140	1.000	1.093	1.185	4.980	5.245	5.510	5.6

Sales Length Tolerance for all UTT items: 71 inch to 75 inch



Sales Tolerances for ArmaFlex® UT Tubes



Sales Tolerances for ArmaFlex® UT Self Seal Tubes

UST 1/2" Walls

Item	Nom Pipe Size	Pipe OD	Insulation ID (in)			Insulation Wall (in)			Calculated OD (in)			R Value
			Min.	Target	Max.	Min.	Target	Max.	Min.	Target	Max.	
UST01412	3/16" Copper	0.250	0.310	0.345	0.380	0.360	0.423	0.485	1.030	1.190	1.350	3.3
UST03812	1/4" Copper	0.375	0.440	0.480	0.520	0.360	0.423	0.485	1.160	1.325	1.490	3.0
UST01212	3/8" Copper	0.500	0.560	0.600	0.640	0.380	0.443	0.505	1.320	1.485	1.650	2.9
UST05812	1/2" Copper	0.625	0.710	0.750	0.790	0.400	0.463	0.525	1.510	1.675	1.840	2.9
UST03412	5/8" Copper	0.750	0.810	0.860	0.910	0.420	0.483	0.545	1.650	1.825	2.000	2.9
UST07812	3/4" Copper	0.875	0.940	0.995	1.050	0.430	0.493	0.555	1.800	1.980	2.160	2.9
UST11812	1" Copper	1.125	1.200	1.255	1.310	0.450	0.513	0.575	2.100	2.280	2.460	2.9
UST13812	1-1/4" Copper	1.375	1.450	1.510	1.570	0.460	0.523	0.585	2.370	2.555	2.740	2.8
UST15812	1-1/2" Copper	1.625	1.710	1.770	1.830	0.470	0.533	0.595	2.650	2.835	3.020	2.8
UST11012	1 1/2" IPS	1.900	1.970	2.030	2.090	0.480	0.543	0.605	2.930	3.115	3.300	2.7
UST21812	2" Copper	2.125	2.220	2.280	2.340	0.490	0.553	0.615	3.200	3.385	3.570	2.8
UST20012	2" IPS	2.375	2.470	2.540	2.610	0.500	0.563	0.625	3.470	3.665	3.860	2.8
UST25812	2-1/2" Copper	2.625	2.720	2.800	2.880	0.500	0.563	0.625	3.720	3.925	4.130	2.8
UST21012	2-1/2" IPS	2.875	2.980	3.060	3.140	0.500	0.563	0.625	3.980	4.185	4.390	2.8

UST 3/4" Walls

Item	Nom Pipe Size	Pipe OD	Insulation ID (in)			Insulation Wall (in)			Calculated OD (in)			R Value
			Min.	Target	Max.	Min.	Target	Max.	Min.	Target	Max.	
UST01434	3/16" Copper	0.250	0.310	0.345	0.385	0.590	0.653	0.715	1.490	1.650	1.815	5.6
UST03834	1/4" Copper	0.375	0.440	0.480	0.520	0.590	0.653	0.715	1.620	1.785	1.950	5.0
UST01234	3/8" Copper	0.500	0.560	0.600	0.640	0.620	0.683	0.745	1.800	1.965	2.130	4.8
UST05834	1/2" Copper	0.625	0.710	0.750	0.790	0.660	0.723	0.785	2.030	2.195	2.360	4.9
UST03434	5/8" Copper	0.750	0.810	0.860	0.910	0.680	0.743	0.805	2.170	2.345	2.520	4.8
UST07834	3/4" Copper	0.875	0.940	0.995	1.050	0.700	0.763	0.825	2.340	2.520	2.700	4.8
UST11834	1" Copper	1.125	1.200	1.255	1.310	0.740	0.803	0.865	2.680	2.860	3.040	4.8
UST13834	1-1/4" Copper	1.375	1.450	1.510	1.570	0.750	0.813	0.875	2.950	3.135	3.320	4.6
UST15834	1-1/2" Copper	1.625	1.710	1.770	1.830	0.750	0.813	0.875	3.210	3.395	3.580	4.5
UST11034	1 1/2" IPS	1.900	1.970	2.030	2.090	0.750	0.813	0.875	3.470	3.655	3.840	4.3
UST21834	2" Copper	2.125	2.220	2.280	2.340	0.750	0.813	0.875	3.720	3.905	4.090	4.2
UST20034	2" IPS	2.375	2.470	2.540	2.610	0.750	0.813	0.875	3.970	4.165	4.360	4.2
UST25834	2-1/2" Copper	2.625	2.720	2.800	2.880	0.750	0.813	0.875	4.220	4.425	4.630	4.1
UST21034	2-1/2" IPS	2.875	2.980	3.060	3.140	0.750	0.813	0.875	4.480	4.685	4.890	4.1

UST 1" Walls

Item	Nom Pipe Size	Pipe OD	Insulation ID (in)			Insulation Wall (in)			Calculated OD (in)			R Value
			Min.	Target	Max.	Min.	Target	Max.	Min.	Target	Max.	
UST01410	3/16" Copper	0.250	0.310	0.345	0.385	0.750	0.813	0.875	1.810	1.970	2.135	7.3
UST03810	1/4" Copper	0.375	0.440	0.480	0.520	0.750	0.813	0.875	1.940	2.105	2.270	6.5
UST01210	3/8" Copper	0.500	0.560	0.600	0.640	0.790	0.853	0.915	2.140	2.305	2.470	6.3
UST05810	1/2" Copper	0.625	0.710	0.750	0.790	0.830	0.893	0.955	2.370	2.535	2.700	6.3
UST03410	5/8" Copper	0.750	0.810	0.860	0.910	0.850	0.913	0.975	2.510	2.685	2.860	6.1
UST07810	3/4" Copper	0.875	0.940	0.995	1.050	0.880	0.943	1.005	2.700	2.880	3.060	6.1
UST11810	1" Copper	1.125	1.200	1.255	1.310	0.920	1.013	1.105	3.040	3.280	3.520	6.3
UST13810	1-1/4" Copper	1.375	1.450	1.510	1.570	0.970	1.063	1.155	3.390	3.635	3.880	6.3
UST15810	1-1/2" Copper	1.625	1.710	1.770	1.830	1.000	1.093	1.185	3.710	3.955	4.200	6.3
UST11010	1 1/2" IPS	1.900	1.970	2.030	2.090	1.000	1.093	1.185	3.970	4.215	4.460	6.0

*These specifications are based on the measurement methods employed by Armacell. Other methods may not result in the same values and cannot be used to determine if the product is within the given tolerance.



Sales Tolerances for ArmaFlex® UT Tubes

UST21810	2" Copper	2.125	2.220	2.280	2.340	1.000	1.093	1.185	4.220	4.465	4.710	5.9
UST20010	2" IPS	2.375	2.470	2.540	2.610	1.000	1.093	1.185	4.470	4.725	4.980	5.8
UST25810	2-1/2" Copper	2.625	2.720	2.800	2.880	1.000	1.093	1.185	4.720	4.985	5.250	5.7
UST21010	2-1/2" IPS	2.875	2.980	3.060	3.140	1.000	1.093	1.185	4.980	5.245	5.510	5.6
Sales Length Tolerance for all UST items: 71 inch to 75 inch												

*These specifications are based on the measurement methods employed by Armacell. Other methods may not result in the same values and cannot be used to determine if the product is within the given tolerance.



Sales Tolerances for ArmaFlex® UT Tubes



Sales Tolerances for ArmaFlex® UT Rolls

UTR Rolls

Item	Nominal Thickness	Roll Thickness (in)			Roll Width (in)			Roll Length (ft)			R Value
		Min.	Target	Max.	Min.	Target	Max.	Min.	Target	Max.	
UTR12040	1/2"	0.490	0.525	0.560	47.00	48.00	49.00	70.00	72.00	74.00	1.9
UTR34040	3/4"	0.730	0.785	0.840	47.00	48.00	49.00	50.00	51.50	53.00	2.8
UTR10040	1"	0.980	1.025	1.070	47.00	48.00	49.00	35.00	36.00	37.00	3.7

*These specifications are based on the measurement methods employed by Armacell. Other methods may not result in the same values and cannot be used to determine if the product is within the given tolerance.