armacell
MAKING A DIFFERENCE AROUND THE WORLD

Sales Tolerances for TUBOLIT®* SS and IMCOA®* SS

K 0.27

3/8" Walls

IMCOA SS Item	TUBOLIT SS Item	Nom Pipe Size	Pipe OD	Insulation ID			Insulation Wall			Calculated OD			R Value
				Min	Targ	Max	Min	Targ	Max	Min	Targ	Max	
6IL038038	DGS03838	1/4" Copper	0.375	0.453	0.472	0.492	0.354	0.374	0.394	1.161	1.220	1.280	2.7
6IL038048	DGS01238	3/8" Copper	0.500	0.571	0.591	0.610	0.354	0.374	0.394	0.394	1.339	1.398	2.4
6IL038058	DGS05838	1/2" Copper	0.625	0.709	0.728	0.748	0.354	0.374	0.394	0.394	1.476	1.535	2.4
6IL038068	DGS03438	5/8" Copper	0.750	0.846	0.866	0.886	0.354	0.374	0.394	0.394	1.614	1.673	2.3
6IL038078	DGS07838	3/4" Copper	0.875	0.965	0.984	1.004	0.354	0.374	0.394	0.394	1.732	1.791	2.2
6IL038118	DGS11838	1" Copper	1.125	1.220	1.240	1.260	0.354	0.374	0.394	0.394	1.988	2.047	2.1
6IL038138	DGS13838	1-1/4" Copper	1.375	1.398	1.417	1.437	0.335	0.354	0.374	0.374	2.126	2.185	1.7
6IL038158	DGS15838	1-1/2" Copper	1.625	1.752	1.772	1.791	0.354	0.374	0.394	0.394	2.520	2.579	2.0
6IL038200	DGS11038	1 1/2" IPS	1.900	1.949	1.969	1.988	0.354	0.374	0.394	2.657	2.717	2.776	1.8
6IL038218	DGS21838	2" Copper	2.125	2.283	2.303	2.323	0.354	0.374	0.394	2.992	3.051	3.110	2.0
6IL038238	DGS20038	2" IPS	2.375	2.441	2.461	2.480	0.354	0.374	0.394	3.150	3.209	3.268	1.8
6IL038258	DGS25838	2-1/2" Copper	2.625	2.795	2.815	2.835	0.354	0.374	0.394	3.504	3.563	3.622	2.0
6IL038278	DGS21038	2-1/2" IPS	2.875	2.953	2.972	2.992	0.354	0.374	0.394	3.661	3.720	3.780	1.8
6IL038318	DGS31838	3" Copper	3.125	3.307	3.327	3.346	0.354	0.374	0.394	4.016	4.075	4.134	2.0

1/2" Walls

IMCOA SS Item	TUBOLIT SS Item	Nom Pipe Size	Pipe OD	Insulation ID			Insulation Wall			Calculated OD			R Value
				Min	Targ	Max	Min	Targ	Max	Min	Targ	Max	
6IL048038	DGS03812	1/4" Copper	0.375	0.453	0.472	0.492	0.480	0.500	0.520	1.413	1.472	1.531	3.7
6IL048048	DGS01212	3/8" Copper	0.500	0.571	0.591	0.610	0.480	0.500	0.520	1.531	1.591	1.650	3.4
6IL048058	DGS05812	1/2" Copper	0.625	0.709	0.728	0.748	0.480	0.500	0.520	1.669	1.728	1.787	3.3
6IL048068	DGS03412	5/8" Copper	0.750	0.846	0.866	0.886	0.480	0.500	0.520	1.807	1.866	1.925	3.2
6IL048078	DGS07812	3/4" Copper	0.875	0.965	0.984	1.004	0.480	0.500	0.520	1.925	1.984	2.043	3.0
6IL048100	----	7/8" Copper	1.000	1.063	1.083	1.102	0.480	0.500	0.520	2.024	2.083	2.142	2.8
6IL048118	DGS11812	1" Copper	1.125	1.220	1.240	1.260	0.480	0.500	0.520	2.181	2.240	2.299	2.9
6IL048128	----	1 1/8" Copper	1.250	1.339	1.358	1.378	0.480	0.500	0.520	2.299	2.358	2.417	2.8
6IL048138	DGS13812	1-1/4" Copper	1.375	1.398	1.417	1.437	0.480	0.500	0.520	2.358	2.417	2.477	2.5
6IL048158	DGS15812	1-1/2" Copper	1.625	1.752	1.772	1.791	0.480	0.500	0.520	2.713	2.772	2.831	2.7
6IL048200	DGS11012	1 1/2" IPS	1.900	1.949	1.969	1.988	0.480	0.500	0.520	2.909	2.969	3.028	2.5
6IL048218	DGS21812	2" Copper	2.125	2.283	2.303	2.323	0.480	0.500	0.520	3.244	3.303	3.362	2.7
6IL048238	DGS20012	2" IPS	2.375	2.441	2.461	2.480	0.480	0.500	0.520	3.402	3.461	3.520	2.4
6IL048258	DGS25812	2-1/2" Copper	2.625	2.795	2.815	2.835	0.480	0.500	0.520	3.756	3.815	3.874	2.6
6IL048278	DGS21012	2-1/2" IPS	2.875	2.953	2.972	2.992	0.480	0.500	0.520	3.913	3.972	4.031	2.4
6IL048318	DGS31812	3" Copper	3.125	3.307	3.327	3.346	0.480	0.500	0.520	4.268	4.327	4.386	2.6
6IL048348	----	3 1/8" Copper	3.375	3.583	3.602	3.622	0.480	0.500	0.520	4.543	4.602	4.661	2.6
6IL048358	DGS35812	3-1/2" Copper	3.625	3.839	3.858	3.878	0.480	0.500	0.520	4.799	4.858	4.917	2.6
6IL048418	DGS41812	4" Copper	4.125	4.370	4.390	4.409	0.480	0.500	0.520	5.331	5.390	5.449	2.7
6IL048448	DGS40012	4" IPS	4.500	4.606	4.626	4.646	0.480	0.500	0.520	5.567	5.626	5.685	2.3

3/4" Walls

IMCOA SS Item	TUBOLIT SS Item	Nom Pipe Size	Pipe OD	Insulation ID			Insulation Wall			Calculated OD			R Value
				Min	Targ	Max	Min	Targ	Max	Min	Targ	Max	
6IL068038	DGS03834	1/4" Copper	0.375	0.453	0.472	0.492	0.728	0.748	0.728	1.909	1.969	1.949	6.0
6IL068048	DGS01234	3/8" Copper	0.500	0.571	0.591	0.610	0.732	0.752	0.772	2.035	2.094	2.154	5.6
6IL068058	DGS05834	1/2" Copper	0.625	0.709	0.728	0.748	0.732	0.752	0.772	2.173	2.232	2.291	5.3
6IL068068	DGS03434	5/8" Copper	0.750	0.846	0.866	0.886	0.732	0.752	0.772	2.311	2.370	2.429	5.1
6IL068078	DGS07834	3/4" Copper	0.875	0.965	0.984	1.004	0.732	0.752	0.772	2.429	2.488	2.547	4.8
6IL068118	DGS11834	1" Copper	1.125	1.220	1.240	1.260	0.732	0.752	0.772	2.685	2.744	2.803	4.5
6IL068128	----	1-1/4" Copper	1.250	1.339	1.358	1.378	0.732	0.752	0.772	2.803	2.862	2.921	4.4
6IL068138	DGS13834	1-1/4" Copper	1.375	1.358	1.378	1.398	0.732	0.752	0.772	2.823	2.882	2.941	3.9
6IL068158	DGS15834	1-1/2" Copper	1.625	1.752	1.772	1.791	0.732	0.752	0.772	3.217	3.276	3.335	4.3
6IL068200	DGS11034	1 1/2" IPS	1.900	1.949	1.969	1.988	0.732	0.752	0.772	3.413	3.472	3.531	3.9
6IL068218	DGS21834	2" Copper	2.125	2.283	2.303	2.323	0.732	0.752	0.772	3.748	3.807	3.866	4.1
6IL068238	DGS20034	2" IPS	2.375	2.441	2.461	2.480	0.732	0.752	0.772	3.906	3.965	4.024	3.8
6IL068258	DGS25834	2-1/2" Copper	2.625	2.795	2.815	2.835	0.732	0.752	0.772	4.260	4.319	4.378	4.0
6IL068278	DGS21034	2-1/2" IPS	2.875	2.953	2.972	2.992	0.732	0.752	0.772	4.417	4.476	4.535	3.7
6IL068318	DGS31834	3" Copper	3.125	3.307	3.327	3.346	0.732	0.752	0.772	4.772	4.831	4.890	3.9
6IL068348	----	3 1/4" Copper	3.375	3.583	3.602	3.622	0.732	0.752	0.772	5.047	5.106	5.165	3.9
6IL068358	DGS35834	3-1/2" Copper	3.625	3.839	3.858	3.878	0.732	0.752	0.772	5.303	5.362	5.421	3.9
6IL068418	DGS41834	4" Copper	4.125	4.370	4.390	4.409	0.732	0.752	0.772	5.835	5.894	5.953	3.9
6IL068448	DGS40034	4" IPS	4.500	4.606	4.626	4.646	0.732	0.752	0.772	6.071	6.130	6.189	3.5

1" Walls

IMCOA SS Item	TUBOLIT SS Item	Nom Pipe Size	Pipe OD	Insulation ID			Insulation Wall			Calculated OD			R Value
				Min	Targ	Max	Min	Targ	Max	Min	Targ	Max	
6IL100038	DGS03810	1/4" Copper	0.375	0.453	0.472	0.492	0.980	1.000	1.020	2.413	2.472	2.531	8.6
6IL100048	DGS01210	3/8" Copper	0.500	0.571	0.591	0.610	0.980	1.000	1.020	2.531	2.591	2.650	7.9
6IL100058	DGS05810	1/2" Copper	0.625	0.709	0.728	0.748	0.980	1.000	1.020	2.669	2.728	2.787	7.4
6IL100068	DGS03410	5/8" Copper	0.750	0.846	0.866	0.886	0.980	1.000	1.020	2.807	2.866	2.925	7.1
6IL100078	DGS07810	3/4" Copper	0.875	0.965	0.984	1.004	0.980	1.000	1.020	2.925	2.984	3.043	6.8
6IL100100	DGS11810	7/8" Copper	1.000	1.063	1.083	1.102	0.980	1.000	1.020	3.024	3.083	3.142	6.4
6IL100118	----	1" Copper	1.125	1.220	1.240	1.260	0.980	1.000	1.020	3.181	3.240	3.299	6.3
6IL100138	DGS13810	1-1/4" Copper	1.375	1.398	1.417	1.437	0.980	1.000	1.020	3.358	3.417	3.476	5.8
6IL100158	DGS15810	1-1/2" Copper	1.625	1.752	1.772	1.791	0.980	1.000	1.020	3.713	3.772	3.831	5.9
6IL100200	DGS11010	1 1/2" IPS	1.900	1.949	1.969	1.988	0.980	1.000	1.020	3.909	3.969	4.028	5.4
6IL100218	DGS21810	2" Copper	2.125	2.283	2.303	2.323	0.980	1.000	1.020	4.244	4.303	4.362	5.6
6IL100238	DGS20010	2" IPS	2.375	2.441	2.461	2.480	0.980	1.000	1.020	4.402	4.461	4.520	5.2
6IL100258	DGS25810	2-1/2" Copper	2.625	2.795	2.815	2.835	0.980	1.000	1.020	4.756	4.815	4.874	5.4
6IL100278	DGS21010	2-1/2" IPS	2.875	2.953	2.972	2.992	0.980	1.000	1.020	4.913	4.972	5.031	5.0
6IL100318	DGS31810	3" Copper	3.125	3.307	3.327	3.346	0.980	1.000	1.020	5.268	5.327	5.386	5.3
6IL100348	----	3 1/4" Copper	3.375	3.583	3.602	3.622	0.980	1.000	1.020	5.543	5.602	5.661	5.3
6IL100358	DGS35810	3-1/2" Copper	3.625	3.839	3.858	3.878	0.980	1.000	1.020	5.799	5.858	5.917	5.2
6IL100418	DGS41810	4" Copper	4.125	4.370	4.390	4.409	0.980	1.000	1.020	6.331	6.390	6.449	5.2
6IL100448	DGS40010	4" IPS	4.500	4.606	4.626	4.646	0.980	1.000	1.020	6.567	6.626	6.685	4.7

*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.
Updated1/31/2022