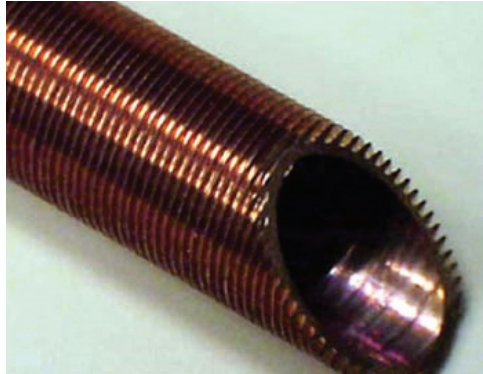




S/T Trufin®

S/T Trufin® in Copper-Nickel Alloys

Type S/T Trufin® is designed for boiling and condensing of hydrocarbons and other liquids. Integral helical fins on the outside of the tubes provide an increase in outside surface area, in effect, minimizing a low heat transfer coefficient normally encountered when evaporating a liquid or condensing a vapor. The inside diameter is basically a smooth surface.



External Standards

This product is produced in alloy C12200 to meet the mechanical, chemical, and testing requirements of ASTM B75/B359 and in alloy C70600 to meet the mechanical, chemical, and testing requirements of ASTM B111/B359. For applications to the ASME pressure vessel code, the product will be produced to meet the requirements of ASME SB75/SB359 for alloy C12200 and to SB111/SB359 for alloy C70600. Other applicable standards - DIN 1787, DIN 17671, DIN 17664, and ADW 6/2 WD TUV 420/5.

Plain Sections

Plain ends and lands of 1" (25.4 mm) and over are standard. For plain ends and lands down to 5/8" (15.9 mm), contact the Wolverine Marketing Department. Spacing between lands of 18" (457.2 mm) and over are supplied as standard.

Lengths

Overall lengths, with power brush deburred ends, are supplied from 4' (1.219 m) to 60' (18.288 m) as standard. Overall lengths, with chamfered ends, can be supplied from 3' (0.914 m) to 28' (8.534 m) as standard lengths.

Temper

S/T Trufin® is supplied as standard, in the "as finned" condition with plain ends and lands in the annealed condition. Material can be supplied in the annealed condition the entire length by special request.

S/T Trufin®

S/T Trufin® - 11 Fins per Inch

Standard Sizes			Plain End Dimensions		Finned Section Dimensions			
Catalog Number	Expanded End Nom. OD inch (mm)	Nominal Wall inch (mm)	Outside Diameter inch (mm)	Wall inch (mm)	Fin Height inch (mm)	Maximum Fin OD inch (mm)	Min. Wall Under Fins inch (mm)	Root Diameter inch (mm)

UNS C12200

67-113028	5/8 (15.88)	.028 (0.711)	.500 (12.70)	.063 (1.60)	.125 (3.175)	.628 (15.95)	.023 (0.584)	.375 (9.53)
67-113035	5/8 (15.88)	.035 (0.889)	.500 (12.70)	.070 (1.78)	.125 (3.175)	.628 (15.95)	.033 (0.826)	.375 (9.53)
67-114025	3/4 (19.05)	.025 (0.635)	.625 (15.88)	.063 (1.60)	.125 (3.175)	.753 (19.13)	.023 (0.584)	.500 (12.70)
67-114028	3/4 (19.05)	.028 (0.711)	.625 (15.88)	.065 (1.65)	.125 (3.175)	.753 (19.13)	.025 (0.635)	.500 (12.70)
67-114035	3/4 (19.05)	.035 (0.889)	.625 (15.88)	.070 (1.78)	.125 (3.175)	.753 (19.13)	.026 (0.648)	.500 (12.70)
67-115032	.86 (21.97)	.032 (0.813)	.750 (19.05)	.070 (1.78)	.120 (3.048)	.865 (21.97)	.027 (0.686)	.625 (15.88)
67-116038	1 (25.40)	.038 (0.965)	.875 (22.23)	.075 (1.91)	.125 (3.175)	1.00 (25.48)	.035 (0.889)	.750 (19.05)

UNS C70600

67-113035	5/8 (15.88)	.035 (0.889)	.500 (12.70)	0.070 (1.78)	.125 (3.175)	.628 (15.95)	.033 (0.826)	.375 (9.53)
67-114035	3/4 (19.05)	.035 (0.889)	.625 (15.88)	0.072 (1.83)	.125 (3.175)	.750 (19.05)	.033 (0.826)	.500 (12.70)
67-115040	7/8 (22.23)	.040 (1.016)	.750 (19.05)	0.075 (1.91)	.125 (3.175)	.878 (22.30)	.037 (0.940)	.625 (15.88)
67-116044	1 (25.40)	.044 (1.118)	.875 (22.23)	0.083 (2.11)	.125 (3.175)	1.003 (25.48)	.041 (1.029)	.750 (19.05)
67-118042	1 1/4 (31.75)	.042 (1.067)	1.125 (28.58)	0.085 (2.16)	.125 (3.175)	1.253 (31.83)	.036 (0.914)	1.00 (25.40)

Catalog Number	Weight Per Unit Length lb/ft (kg/m)	Nominal Inside Dia. inch (mm)	Nominal Outside Surface Area ft²/ft (m²/m)	Surface Area Ratio Outside to Inside	Nominal Inside Cross Sect. Area in² (mm²)
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UNS C12200

67-113028	0.290 (0.431)	0.329 (8.36)	0.418 (0.127)	4.97	0.081 (52.3)
67-113035	0.317 (0.472)	0.310 (7.87)	0.418 (0.127)	5.29	0.073 (47.1)
67-114025	0.377 (0.562)	0.454 (11.53)	0.526 (0.160)	4.47	0.159 (102.6)
67-114028	0.378 (0.563)	0.450 (11.43)	0.526 (0.160)	4.51	0.156 (100.6)
67-114035	0.393 (0.584)	0.449 (11.40)	0.526 (0.160)	4.65	0.147 (94.8)
67-115032	0.531 (0.791)	0.571 (14.50)	0.635 (0.194)	4.31	0.249 (160.6)
67-116038	0.641 (0.953)	0.680 (17.27)	0.825 (0.251)	4.64	0.357 (230.3)

UNS C70600

67-113035	0.317 (0.472)	0.310 (7.87)	0.418 (0.127)	5.29	0.073 (47.1)
67-114035	0.440 (0.654)	0.435 (11.05)	0.581 (0.177)	4.75	0.145 (93.5)
67-115040	0.579 (0.862)	0.551 (14.00)	0.635 (0.194)	4.43	0.233 (150.3)
67-116044	0.734 (1.093)	0.669 (16.99)	0.743 (0.226)	4.28	0.346 (223.2)
67-118042	0.804 (1.196)	0.928 (23.57)	N/D	N/D	0.659 (425.2)

S/T Trufin®

S/T Trufin® - 19 Fins per Inch

Standard Sizes			Plain End Dimensions		Finned Section Dimensions			
Catalog Number	Outside Diameter inch (mm)	Nominal Wall inch (mm)	Outside Diameter inch (mm)	Wall inch (mm)	Fin Height inch (mm)	Finished Fin OD inch (mm)	Min. Wall Under Fins inch (mm)	Root Diameter inch (mm)
UNS C12200								
60-192035	3/8 (9.53)	0.035 (0.889)	0.373 (9.47)	0.047 (1.19)	0.063 (1.588)	0.370 (9.40)	0.031 (0.787)	0.250 (6.35)
60-193028	1/2 (12.70)	0.028 (0.711)	0.498 (12.65)	0.048 (1.22)	0.063 (1.588)	0.495 (12.57)	0.025 (0.635)	0.375 (9.53)
60-193032	1/2 (12.70)	0.032 (0.813)	0.498 (12.65)	0.049 (1.24)	0.063 (1.588)	0.495 (12.57)	0.028 (0.711)	0.375 (9.53)
60-193035	1/2 (12.70)	0.035 (0.889)	0.500 (12.70)	0.052 (1.32)	0.063 (1.588)	0.495 (12.57)	0.031 (0.787)	0.375 (9.53)
60-193042	1/2 (12.70)	0.042 (1.067)	0.498 (12.65)	0.058 (1.47)	0.063 (1.588)	0.495 (12.57)	0.037 (0.940)	0.375 (9.53)
60-193049	1/2 (12.70)	0.049 (1.245)	0.498 (12.65)	0.065 (1.65)	0.063 (1.588)	0.495 (12.57)	0.044 (1.118)	0.375 (9.53)
60-194025	5/8 (15.88)	0.025 (0.635)	0.623 (15.82)	0.045 (1.14)	0.063 (1.588)	0.620 (15.75)	0.022 (0.559)	0.500 (12.70)
60-194028	5/8 (15.88)	0.028 (0.711)	0.623 (15.82)	0.048 (1.22)	0.063 (1.588)	0.620 (15.75)	0.025 (0.635)	0.500 (12.70)
60-194035	5/8 (15.88)	0.035 (0.889)	0.623 (15.82)	0.052 (1.32)	0.063 (1.588)	0.620 (15.75)	0.031 (0.787)	0.500 (12.70)
60-194042	5/8 (15.88)	0.042 (1.067)	0.623 (15.82)	0.058 (1.47)	0.063 (1.588)	0.620 (15.75)	0.037 (0.940)	0.500 (12.70)
60-194049	5/8 (15.88)	0.049 (1.245)	0.623 (15.82)	0.065 (1.65)	0.063 (1.588)	0.620 (15.75)	0.044 (1.118)	0.500 (12.70)
60-194058	5/8 (15.88)	0.058 (1.473)	0.623 (15.82)	0.072 (1.83)	0.063 (1.588)	0.620 (15.75)	0.051 (1.295)	0.500 (12.70)
60-194065	5/8 (15.88)	0.065 (1.651)	0.623 (15.82)	0.083 (2.11)	0.063 (1.588)	0.620 (15.75)	0.058 (1.473)	0.500 (12.70)
60-194072	5/8 (15.88)	0.072 (1.829)	0.623 (15.82)	0.086 (2.18)	0.063 (1.588)	0.620 (15.75)	0.066 (1.676)	0.500 (12.70)
60-194625	5/8 (15.88)	0.025 (0.635)	0.623 (15.82)	0.043 (1.09)	0.051 (1.295)	0.618 (15.70)	0.022 (0.559)	0.523 (13.28)
60-194628	5/8 (15.88)	0.028 (0.711)	0.623 (15.82)	0.046 (1.17)	0.051 (1.295)	0.618 (15.70)	0.025 (0.635)	0.523 (13.28)
60-194635	5/8 (15.88)	0.035 (0.889)	0.623 (15.82)	0.051 (1.30)	0.051 (1.295)	0.618 (15.70)	0.031 (0.787)	0.523 (13.28)
60-195028	3/4 (19.05)	0.028 (0.711)	0.743 (18.87)	0.049 (1.24)	0.063 (1.588)	0.741 (18.82)	0.025 (0.635)	0.625 (15.88)
60-195035	3/4 (19.05)	0.035 (0.889)	0.748 (19.00)	0.052 (1.32)	0.063 (1.588)	0.745 (18.92)	0.031 (0.787)	0.625 (15.88)
60-195042	3/4 (19.05)	0.042 (1.067)	0.748 (19.00)	0.058 (1.47)	0.063 (1.588)	0.741 (18.82)	0.037 (0.940)	0.625 (15.88)
60-195049	3/4 (19.05)	0.049 (1.245)	0.748 (19.00)	0.065 (1.65)	0.063 (1.588)	0.741 (18.82)	0.044 (1.118)	0.625 (15.88)

S/T Trufin®

S/T Trufin® - 19 Fins per Inch

Standard Sizes			Plain End Dimensions		Finned Section Dimensions			
Catalog Number	Outside Diameter inch (mm)	Nominal Wall inch (mm)	Outside Diameter inch (mm)	Wall inch (mm)	Fin Height inch (mm)	Maximum Fin OD inch (mm)	Min. Wall Under Fins inch (mm)	Root Diameter inch (mm)
UNS C12200								
60-195052	3/4 (19.05)	0.052 (1.321)	0.748 (19.00)	0.066 (1.68)	0.063 (1.588)	0.745 (18.92)	0.047 (1.194)	0.625 (15.88)
60-195058	3/4 (19.05)	0.058 (1.473)	0.748 (19.00)	0.075 (1.91)	0.063 (1.588)	0.745 (18.92)	0.051 (1.295)	0.625 (15.88)
60-195065	3/4 (19.05)	0.065 (1.651)	0.748 (19.00)	0.083 (2.11)	0.063 (1.588)	0.745 (18.92)	0.058 (1.473)	0.625 (15.88)
60-195072	3/4 (19.05)	0.072 (1.829)	0.748 (19.00)	0.086 (2.18)	0.063 (1.588)	0.745 (18.92)	0.065 (1.651)	0.625 (15.88)
60-195083	3/4 (19.05)	0.083 (2.108)	0.748 (19.00)	0.095 (2.41)	0.063 (1.588)	0.745 (18.92)	0.074 (1.880)	0.625 (15.88)
60-195628	3/4 (19.05)	0.028 (0.711)	0.743 (18.87)	0.047 (1.19)	0.047 (1.181)	0.745 (18.92)	0.025 (0.635)	0.657 (16.69)
60-196028	7/8 (22.23)	0.028 (0.711)	0.873 (22.17)	0.049 (1.24)	0.063 (1.588)	0.870 (22.10)	0.025 (0.635)	0.750 (19.05)
60-196035	7/8 (22.23)	0.035 (0.889)	0.873 (22.17)	0.052 (1.32)	0.063 (1.588)	0.870 (22.10)	0.031 (0.787)	0.750 (19.05)
60-196042	7/8 (22.23)	0.042 (1.067)	0.873 (22.17)	0.058 (1.47)	0.063 (1.588)	0.870 (22.10)	0.037 (0.940)	0.750 (19.05)
60-196049	7/8 (22.23)	0.049 (1.245)	0.873 (22.17)	0.065 (1.65)	0.063 (1.588)	0.870 (22.10)	0.042 (1.067)	0.750 (19.05)
60-196058	7/8 (22.23)	0.058 (1.473)	0.873 (22.17)	0.076 (1.93)	0.063 (1.588)	0.870 (22.10)	0.049 (1.245)	0.750 (19.05)
60-196065	7/8 (22.23)	0.065 (1.651)	0.873 (22.17)	0.083 (2.11)	0.063 (1.588)	0.870 (22.10)	0.058 (1.473)	0.750 (19.05)
60-196072	7/8 (22.23)	0.072 (1.829)	0.875 (22.23)	0.086 (2.18)	0.063 (1.588)	0.866 (22.00)	0.065 (1.651)	0.750 (19.05)
60-196083	7/8 (22.23)	0.083 (2.108)	0.875 (22.23)	0.095 (2.41)	0.063 (1.588)	0.866 (22.00)	0.074 (1.880)	0.750 (19.05)
60-197049	1 (25.40)	0.049 (1.245)	0.998 (25.35)	0.065 (1.65)	0.063 (1.588)	0.995 (25.27)	0.044 (1.118)	0.875 (22.23)
60-197058	1 (25.40)	0.058 (1.473)	1.000 (25.40)	0.076 (1.93)	0.063 (1.588)	0.990 (25.15)	0.051 (1.295)	0.875 (22.23)
60-197065	1 (25.40)	0.065 (1.651)	1.000 (25.40)	0.083 (2.11)	0.063 (1.588)	0.990 (25.15)	0.058 (1.473)	0.875 (22.23)
60-197072	1 (25.40)	0.072 (1.829)	1.000 (25.40)	0.086 (2.18)	0.063 (1.588)	0.990 (25.15)	0.065 (1.651)	0.875 (22.23)
60-197083	1 (25.40)	0.083 (2.108)	1.000 (25.40)	0.095 (2.41)	0.063 (1.588)	0.990 (25.15)	0.074 (1.880)	0.875 (22.23)
60-197095	1 (25.40)	0.095 (2.413)	1.000 (25.40)	0.109 (2.77)	0.063 (1.588)	0.990 (25.15)	0.083 (2.108)	0.875 (22.23)
60-197109	1 (25.40)	0.109 (2.769)	1.000 (25.40)	0.120 (3.05)	0.063 (1.588)	0.990 (25.15)	0.095 (2.413)	0.875 (22.23)

S/T Trufin®

S/T Trufin® - 19 Fins per Inch

Standard Sizes			Plain End Dimensions		Finned Section Dimensions			
Catalog Number	Outside Diameter inch (mm)	Nominal Wall inch (mm)	Outside Diameter inch (mm)	Wall inch (mm)	Fin Height inch (mm)	Maximum Fin OD inch (mm)	Min. Wall Under Fins inch (mm)	Root Diameter inch (mm)
UNS C70600								
60-193032	1/2 (12.70)	0.032 (0.813)	0.498 (12.65)	0.049 (1.24)	0.063 (1.588)	0.495 (12.57)	0.028 (0.711)	0.375 (9.53)
60-193035	1/2 (12.70)	0.035 (0.889)	0.498 (12.65)	0.052 (1.32)	0.063 (1.588)	0.495 (12.57)	0.031 (0.787)	0.375 (9.53)
60-193042	1/2 (12.70)	0.042 (1.067)	0.500 (12.70)	0.058 (1.47)	0.063 (1.588)	0.490 (12.45)	0.037 (0.940)	0.375 (9.53)
60-193049	1/2 (12.70)	0.049 (1.245)	0.498 (12.65)	0.065 (1.65)	0.063 (1.588)	0.495 (12.57)	0.044 (1.118)	0.375 (9.53)
60-194025	5/8 (15.88)	0.025 (0.635)	0.625 (15.88)	0.045 (1.14)	0.063 (1.588)	0.618 (15.70)	0.022 (0.559)	0.500 (12.70)
60-194028	5/8 (15.88)	0.028 (0.711)	0.625 (15.88)	0.045 (1.14)	0.063 (1.588)	0.618 (15.70)	0.025 (0.635)	0.500 (12.70)
60-194035	5/8 (15.88)	0.035 (0.889)	0.623 (15.82)	0.053 (1.35)	0.063 (1.588)	0.620 (15.75)	0.031 (0.787)	0.500 (12.70)
60-194042	5/8 (15.88)	0.042 (1.067)	0.623 (15.82)	0.058 (1.47)	0.063 (1.588)	0.620 (15.75)	0.037 (0.940)	0.500 (12.70)
60-194049	5/8 (15.88)	0.049 (1.245)	0.623 (15.82)	0.065 (1.65)	0.063 (1.588)	0.620 (15.75)	0.044 (1.118)	0.500 (12.70)
60-194058	5/8 (15.88)	0.058 (1.473)	0.623 (15.82)	0.072 (1.83)	0.063 (1.588)	0.620 (15.75)	0.049 (1.245)	0.500 (12.70)
60-194065	5/8 (15.88)	0.065 (1.651)	0.623 (15.82)	0.083 (2.11)	0.063 (1.588)	0.620 (15.75)	0.058 (1.473)	0.500 (12.70)
60-194072	5/8 (15.88)	0.072 (1.829)	0.620 (15.75)	0.086 (2.18)	0.063 (1.588)	0.620 (15.75)	0.065 (1.651)	0.500 (12.70)
60-194625	5/8 (15.88)	0.025 (0.635)	0.623 (15.82)	0.043 (1.09)	0.051 (1.295)	0.618 (15.70)	0.022 (0.559)	0.523 (13.28)
60-194628	5/8 (15.88)	0.028 (0.711)	0.623 (15.82)	0.046 (1.17)	0.051 (1.295)	0.618 (15.70)	0.025 (0.635)	0.523 (13.28)
60-194635	5/8 (15.88)	0.035 (0.889)	0.625 (15.88)	0.051 (1.30)	0.063 (1.588)	0.618 (15.70)	0.031 (0.787)	0.500 (12.70)
60-195028	3/4 (19.05)	0.028 (0.711)	0.748 (19.00)	0.049 (1.24)	0.063 (1.588)	0.745 (18.92)	0.025 (0.635)	0.625 (15.88)
60-195035	3/4 (19.05)	0.035 (0.889)	0.748 (19.00)	0.052 (1.32)	0.063 (1.588)	0.745 (18.92)	0.031 (0.787)	0.625 (15.88)
60-195042	3/4 (19.05)	0.042 (1.067)	0.748 (19.00)	0.058 (1.47)	0.063 (1.588)	0.745 (18.92)	0.037 (0.940)	0.625 (15.88)
60-195049	3/4 (19.05)	0.049 (1.245)	0.748 (19.00)	0.065 (1.65)	0.063 (1.588)	0.745 (18.92)	0.044 (1.118)	0.625 (15.88)
60-195058	3/4 (19.05)	0.058 (1.473)	0.748 (19.00)	0.075 (1.91)	0.063 (1.588)	0.745 (18.92)	0.049 (1.245)	0.625 (15.88)
60-195065	3/4 (19.05)	0.065 (1.651)	0.748 (19.00)	0.083 (2.11)	0.063 (1.588)	0.745 (18.92)	0.058 (1.473)	0.625 (15.88)

S/T Trufin®

S/T Trufin® - 19 Fins per Inch

Standard Sizes			Plain End Dimensions		Finned Section Dimensions			
Catalog Number	Outside Diameter inch (mm)	Nominal Wall inch (mm)	Outside Diameter inch (mm)	Wall inch (mm)	Fin Height inch (mm)	Maximum Fin OD inch (mm)	Min. Wall Under Fins inch (mm)	Root Diameter inch (mm)
UNS C70600								
60-195072	3/4 (19.05)	0.072 (1.829)	0.748 (19.00)	0.086 (2.18)	0.063 (1.588)	0.745 (18.92)	0.065 (1.651)	0.625 (15.88)
60-195083	3/4 (19.05)	0.083 (2.108)	0.748 (19.00)	0.095 (2.41)	0.063 (1.588)	0.745 (18.92)	0.074 (1.880)	0.625 (15.88)
60-195628	3/4 (19.05)	0.028 (0.711)	0.743 (18.87)	0.047 (1.19)	0.047 (1.181)	0.745 (18.92)	0.025 (0.635)	0.657 (16.69)
60-196049	7/8 (22.23)	0.049 (1.245)	0.873 (22.17)	0.065 (1.65)	0.063 (1.588)	0.870 (22.10)	0.044 (1.118)	0.750 (19.05)
60-196065	7/8 (22.23)	0.065 (1.651)	0.873 (22.17)	0.083 (2.11)	0.063 (1.588)	0.870 (22.10)	0.058 (1.473)	0.750 (19.05)
60-197042	1 (25.40)	0.042 (1.067)	0.998 (25.35)	0.058 (1.47)	0.063 (1.588)	0.995 (25.27)	0.037 (0.940)	0.875 (22.23)
60-197049	1 (25.40)	0.049 (1.245)	0.998 (25.35)	0.065 (1.65)	0.063 (1.588)	0.995 (25.27)	0.044 (1.118)	0.875 (22.23)
60-197065	1 (25.40)	0.065 (1.651)	0.998 (25.35)	0.083 (2.11)	0.063 (1.588)	0.995 (25.27)	0.058 (1.473)	0.875 (22.23)
60-197072	1 (25.40)	0.072 (1.829)	0.998 (25.35)	0.086 (2.18)	0.063 (1.588)	0.990 (25.15)	0.065 (1.651)	0.875 (22.23)
60-197083	1 (25.40)	0.083 (2.108)	0.998 (25.35)	0.095 (2.41)	0.063 (1.588)	0.995 (25.27)	0.072 (1.829)	0.875 (22.23)
60-197109	1 (25.40)	0.109 (2.769)	1.000 (25.40)	0.120 (3.05)	0.063 (1.588)	0.995 (25.27)	0.097 (2.464)	0.875 (22.23)
UNS C71500								
60-193042	1/2 (12.70)	0.042 (1.067)	0.498 (12.65)	0.058 (1.47)	0.063 (1.588)	0.495 (12.57)	0.037 (0.940)	0.375 (9.53)
60-193049	1/2 (12.70)	0.049 (1.245)	0.498 (12.65)	0.065 (1.65)	0.063 (1.588)	0.495 (12.57)	0.044 (1.118)	0.375 (9.53)
60-194049	5/8 (15.88)	0.049 (1.245)	0.623 (15.82)	0.065 (1.65)	0.063 (1.588)	0.620 (15.75)	0.044 (1.118)	0.500 (12.70)
60-194058	5/8 (15.88)	0.058 (1.473)	0.623 (15.82)	0.072 (1.83)	0.063 (1.588)	0.620 (15.75)	0.049 (1.245)	0.500 (12.70)

S/T Trufin®

S/T Trufin® - 19 Fins per Inch

Standard Sizes			Plain End Dimensions		Finned Section Dimensions			
Catalog Number	Outside Diameter inch (mm)	Nominal Wall inch (mm)	Outside Diameter inch (mm)	Wall inch (mm)	Fin Height inch (mm)	Maximum Fin OD inch (mm)	Min. Wall Under Fins inch (mm)	Root Diameter inch (mm)
UNS C71500								
60-195035	3/4 (19.05)	0.035 (0.889)	0.748 (19.00)	0.052 (1.32)	0.063 (1.588)	0.745 (18.92)	0.031 (0.787)	0.748 (19.00)
60-195042	3/4 (19.05)	0.042 (1.067)	0.748 (19.00)	0.058 (1.47)	0.063 (1.588)	0.745 (18.92)	0.037 (0.940)	0.748 (19.00)
60-195049	3/4 (19.05)	0.049 (1.245)	0.748 (19.00)	0.065 (1.65)	0.063 (1.588)	0.745 (18.92)	0.044 (1.118)	0.625 (15.88)
60-195058	3/4 (19.05)	0.058 (1.473)	0.748 (19.00)	0.075 (1.91)	0.063 (1.588)	0.745 (18.92)	0.049 (1.245)	0.625 (15.88)
60-195065	3/4 (19.05)	0.065 (1.651)	0.748 (19.00)	0.083 (2.11)	0.063 (1.588)	0.745 (18.92)	0.058 (1.473)	0.625 (15.88)
60-195072	3/4 (19.05)	0.072 (1.829)	0.748 (19.00)	0.086 (2.18)	0.063 (1.588)	0.745 (18.92)	0.065 (1.651)	0.625 (15.88)
60-195083	3/4 (19.05)	0.083 (2.108)	0.748 (19.00)	0.095 (2.41)	0.063 (1.588)	0.745 (18.92)	0.072 (1.829)	0.625 (15.88)
UNS C71500								
60-197065	1 (25.40)	0.065 (1.651)	0.998 (25.35)	0.083 (2.11)	0.063 (1.588)	0.995 (25.27)	0.058 (1.473)	0.875 (22.23)
60-197072	1 (25.40)	0.072 (1.829)	0.998 (25.35)	0.086 (2.18)	0.063 (1.588)	0.990 (25.15)	0.065 (1.651)	0.875 (22.23)
60-197083	1 (25.40)	0.083 (2.108)	0.998 (25.35)	0.095 (2.41)	0.072 (1.816)	0.995 (25.27)	0.072 (1.829)	0.857 (21.77)

S/T Trufin®

S/T Trufin® - 19 Fins per Inch

Catalog Number	Weight Per Unit Length lb/ft (kg/m)	Nominal Inside Dia. inch (mm)	Actual Inside Surface Area ft²/ft (m²/m)	Actual Outside Surface Area ft²/ft (m²/m)
UNS C12200				
60-192035	0.171 (0.255)	0.180 (4.57)	0.047 (0.01)	0.225 (0.07)
60-193028	0.241 (0.359)	0.319 (8.10)	0.084 (0.03)	0.319 (0.10)
60-193032	0.246 (0.366)	0.311 (7.90)	0.081 (0.02)	0.319 (0.10)
60-193035	0.265 (0.394)	0.305 (7.75)	0.080 (0.02)	0.319 (0.10)
60-193042	0.292 (0.434)	0.291 (7.39)	0.076 (0.02)	0.319 (0.10)
60-193049	0.318 (0.473)	0.277 (7.04)	0.073 (0.02)	0.319 (0.10)
60-194025	0.266 (0.396)	0.450 (11.43)	0.118 (0.04)	0.413 (0.13)
60-194028	0.315 (0.469)	0.444 (11.28)	0.116 (0.04)	0.413 (0.13)
60-194035	0.339 (0.505)	0.430 (10.92)	0.113 (0.03)	0.413 (0.13)
60-194042	0.374 (0.557)	0.416 (10.57)	0.109 (0.03)	0.413 (0.13)
60-194049	0.414 (0.616)	0.402 (10.21)	0.105 (0.03)	0.413 (0.13)
60-194058	0.448 (0.667)	0.384 (9.75)	0.101 (0.03)	0.413 (0.13)
60-194065	0.506 (0.754)	0.370 (9.40)	0.097 (0.03)	0.413 (0.13)
60-194072	0.528 (0.785)	0.356 (9.04)	0.093 (0.03)	0.413 (0.13)
60-194625	0.269 (0.401)	0.473 (12.01)	0.124 (0.04)	0.376 (0.11)
60-194628	0.297 (0.441)	0.467 (11.86)	0.122 (0.04)	0.376 (0.11)
60-194635	0.330 (0.491)	0.453 (11.51)	0.119 (0.04)	0.376 (0.11)
60-195028	0.355 (0.528)	0.569 (14.45)	0.149 (0.05)	0.507 (0.15)
60-195035	0.364 (0.542)	0.555 (14.10)	0.145 (0.04)	0.507 (0.15)
60-195042	0.452 (0.673)	0.541 (13.74)	0.142 (0.04)	0.507 (0.15)
60-195049	0.496 (0.738)	0.527 (13.39)	0.138 (0.04)	0.507 (0.15)
60-195052	0.509 (0.757)	0.521 (13.23)	0.136 (0.04)	0.507 (0.15)
60-195058	0.577 (0.858)	0.509 (12.93)	0.133 (0.04)	0.507 (0.15)
60-195065	0.631 (0.938)	0.495 (12.57)	0.130 (0.04)	0.507 (0.15)
60-195072	0.651 (0.968)	0.481 (12.22)	0.126 (0.04)	0.507 (0.15)
60-195083	0.709 (1.055)	0.459 (11.66)	0.120 (0.04)	0.507 (0.15)
60-195628	0.355 (0.528)	0.603 (15.32)	0.157 (0.05)	0.466 (0.14)
60-196028	0.461 (0.686)	0.694 (17.63)	0.182 (0.06)	0.601 (0.18)
60-196035	0.488 (0.726)	0.680 (17.27)	0.178 (0.05)	0.601 (0.18)
60-196042	0.528 (0.786)	0.665 (16.89)	0.174 (0.05)	0.601 (0.18)
60-196049	0.587 (0.873)	0.652 (16.56)	0.171 (0.05)	0.601 (0.18)
60-196058	0.622 (0.925)	0.634 (16.10)	0.170 (0.05)	0.601 (0.18)
60-196065	0.749 (1.115)	0.620 (15.75)	0.162 (0.05)	0.601 (0.18)
60-196072	0.782 (1.163)	0.606 (15.39)	0.159 (0.05)	0.601 (0.18)
60-196083	0.856 (1.274)	0.584 (14.83)	0.153 (0.05)	0.601 (0.18)
60-197049	0.700 (1.042)	0.777 (19.74)	0.203 (0.06)	0.695 (0.21)
60-197058	0.809 (1.204)	0.759 (19.28)	0.199 (0.06)	0.695 (0.21)
60-197065	0.877 (1.305)	0.745 (18.92)	0.195 (0.06)	0.695 (0.21)
60-197072	0.906 (1.348)	0.731 (18.57)	0.191 (0.06)	0.695 (0.21)
60-197083	1.001 (1.490)	0.709 (18.01)	0.186 (0.06)	0.695 (0.21)
60-197095	1.119 (1.665)	0.685 (17.40)	0.179 (0.05)	0.695 (0.21)
60-197109	1.230 (1.830)	0.657 (16.69)	0.172 (0.05)	0.695 (0.21)

S/T Trufin®

S/T Trufin® - 19 Fins per Inch

Catalog Number	Weight Per Unit Length lb/ft (kg/m)	Nominal Inside Dia. inch (mm)	Actual Inside Surface Area ft²/ft (m²/m)	Actual Outside Surface Area ft²/ft (m²/m)
UNS C70600				
60-193032	0.249 (0.370)	0.311 (7.90)	0.081 (0.02)	0.319 (0.10)
60-193035	0.265 (0.394)	0.305 (7.75)	0.080 (0.02)	0.319 (0.10)
60-193042	0.292 (0.434)	0.291 (7.39)	0.076 (0.02)	0.319 (0.10)
60-193049	0.318 (0.473)	0.277 (7.04)	0.073 (0.02)	0.319 (0.10)
60-194025	0.267 (0.397)	0.450 (11.43)	0.118 (0.04)	0.413 (0.13)
60-194028	0.297 (0.442)	0.444 (11.28)	0.116 (0.04)	0.413 (0.13)
60-194035	0.345 (0.513)	0.430 (10.92)	0.113 (0.03)	0.413 (0.13)
60-194042	0.370 (0.551)	0.416 (10.57)	0.109 (0.03)	0.413 (0.13)
60-194049	0.410 (0.610)	0.402 (10.21)	0.105 (0.03)	0.413 (0.13)
60-194058	0.453 (0.674)	0.384 (9.75)	0.101 (0.03)	0.413 (0.13)
60-194065	0.501 (0.745)	0.370 (9.40)	0.097 (0.03)	0.413 (0.13)
60-194072	0.513 (0.764)	0.356 (9.04)	0.093 (0.03)	0.413 (0.13)
60-194625	0.255 (0.380)	0.473 (12.01)	0.124 (0.04)	0.376 (0.11)
60-194628	0.300 (0.446)	0.467 (11.86)	0.122 (0.04)	0.376 (0.11)
60-194635	0.326 (0.485)	0.453 (11.51)	0.119 (0.04)	0.376 (0.11)
60-195028	0.387 (0.576)	0.569 (14.45)	0.149 (0.05)	0.507 (0.15)
60-195035	0.364 (0.542)	0.558 (14.17)	0.145 (0.04)	0.507 (0.15)
60-195042	0.427 (0.636)	0.543 (13.79)	0.142 (0.04)	0.507 (0.15)
60-195049	0.491 (0.730)	0.528 (13.41)	0.138 (0.04)	0.507 (0.15)
60-195058	0.564 (0.840)	0.510 (12.95)	0.133 (0.04)	0.507 (0.15)
60-195065	0.631 (0.938)	0.495 (12.57)	0.130 (0.04)	0.507 (0.15)
60-195072	0.651 (0.968)	0.480 (12.19)	0.126 (0.04)	0.507 (0.15)
60-195083	0.709 (1.055)	0.460 (11.68)	0.120 (0.04)	0.507 (0.15)
60-195628	0.366 (0.544)	0.603 (15.32)	0.157 (0.05)	0.466 (0.14)
60-196049	0.570 (0.847)	0.652 (16.56)	0.171 (0.05)	0.601 (0.18)
60-196065	0.749 (1.115)	0.621 (15.77)	0.163 (0.05)	0.595 (0.18)
60-197042	0.623 (0.927)	0.791 (20.09)	0.207 (0.06)	0.695 (0.21)
60-197049	0.655 (0.975)	0.777 (19.74)	0.203 (0.06)	0.695 (0.21)
60-197065	0.868 (1.291)	0.745 (18.92)	0.195 (0.06)	0.695 (0.21)
60-197072	0.896 (1.334)	N/D	N/D	N/D
60-197083	0.980 (1.458)	0.709 (18.01)	0.186 (0.06)	0.695 (0.21)
60-197109	1.272 (1.893)	0.657 (16.69)	0.172 (0.05)	0.695 (0.21)
UNS C71500				
60-193042	0.288 (0.429)	0.295 (7.49)	0.076 (0.02)	0.319 (0.10)
60-193049	0.318 (0.473)	0.277 (7.04)	0.073 (0.02)	0.319 (0.10)
60-194049	0.410 (0.610)	0.405 (10.29)	0.105 (0.03)	0.413 (0.13)
60-194058	0.453 (0.674)	0.385 (9.78)	0.101 (0.03)	0.413 (0.13)

S/T Trufin®

S/T Trufin® - 19 Fins per Inch

Catalog Number	Weight Per Unit Length lb/ft (kg/m)	Nominal Inside Dia. inch (mm)	Actual Inside Surface Area ft²/ft (m²/m)	Actual Outside Surface Area ft²/ft (m²/m)
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UNS C71500

60-195035	0.364 (0.542)	N/D	N/D	N/D
60-195042	0.427 (0.636)	N/D	N/D	N/D
60-195049	0.507 (0.755)	0.527 (13.39)	0.138 (0.04)	0.507 (0.15)
60-195058	0.577 (0.858)	0.509 (12.93)	0.133 (0.04)	0.507 (0.15)
60-195065	0.631 (0.938)	0.495 (12.57)	0.130 (0.04)	0.507 (0.15)
60-195072	0.651 (0.968)	0.481 (12.22)	0.126 (0.04)	0.507 (0.15)
60-195083	0.709 (1.055)	0.459 (11.66)	0.120 (0.04)	0.507 (0.15)

UNS C71500

60-197065	0.868 (1.291)	N/D	N/D	N/D
60-197072	0.896 (1.334)	0.731 (18.57)	0.191 (0.06)	0.695 (0.21)
60-197083	0.980 (1.458)	0.709 (18.01)	0.186 (0.06)	0.695 (0.21)

S/T Trufin® - 26 Fins per Inch

Standard Sizes

Catalog Number	Outside Diameter inch (mm)	Nominal Wall inch (mm)
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Plain End Dimensions

Outside Diameter inch (mm)	Wall inch (mm)
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Finned Section Dimensions

Fin Height inch (mm)	Finished Fin OD inch (mm)	Min. Wall Under Fins inch (mm)	Root Diameter inch (mm)
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UNS C12200

65-264028	5/8 (15.88)	.028 (0.711)	.625 (15.88)	0.049 (1.24)	.063 (1.588)	.620 (15.75)	.025 (0.635)	.500 (12.70)
65-264035	5/8 (15.88)	.035 (0.889)	.625 (15.88)	0.056 (1.42)	.063 (1.588)	.620 (15.75)	.031 (0.787)	.500 (12.70)
65-264049	5/8 (15.88)	.049 (1.245)	.625 (15.88)	0.069 (1.75)	.063 (1.588)	.620 (15.75)	.044 (1.118)	.500 (12.70)
65-265025	3/4 (19.05)	.025 (0.635)	.750 (19.05)	0.049 (1.24)	.063 (1.588)	.745 (18.92)	.022 (0.559)	.625 (15.88)
65-265028	3/4 (19.05)	.028 (0.711)	.750 (19.05)	0.051 (1.30)	.063 (1.588)	.745 (18.92)	.025 (0.635)	.625 (15.88)
65-265035	3/4 (19.05)	.035 (0.889)	.750 (19.05)	0.055 (1.40)	.063 (1.588)	.745 (18.92)	.031 (0.787)	.625 (15.88)
65-265042	3/4 (19.05)	.042 (1.067)	.750 (19.05)	0.062 (1.57)	.063 (1.588)	.745 (18.92)	.037 (0.940)	.625 (15.88)
65-265049	3/4 (19.05)	.049 (1.245)	.750 (19.05)	0.069 (1.75)	.063 (1.588)	.745 (18.92)	.044 (1.118)	.625 (15.88)
65-265058	3/4 (19.05)	.058 (1.473)	.750 (19.05)	0.078 (1.98)	.063 (1.588)	.745 (18.92)	.049 (1.245)	.625 (15.88)
65-265065	3/4 (19.05)	.065 (1.651)	.750 (19.05)	0.085 (2.16)	.063 (1.588)	.745 (18.92)	.058 (1.473)	.625 (15.88)
65-265072	3/4 (19.05)	.072 (1.829)	.750 (19.05)	0.092 (2.34)	.063 (1.588)	.745 (18.92)	.065 (1.651)	.625 (15.88)
65-267049	1 (25.40)	.049 (1.245)	.998 (25.35)	0.069 (1.75)	.063 (1.588)	.995 (25.27)	.044 (1.118)	.875 (22.23)
65-267065	1 (25.40)	.065 (1.651)	1.00 (25.40)	0.085 (2.16)	.063 (1.588)	.995 (25.27)	.058 (1.473)	.875 (22.23)

S/T Trufin®

S/T Trufin® - 26 Fins per Inch

Standard Sizes			Plain End Dimensions		Finned Section Dimensions			
Catalog Number	Outside Diameter inch (mm)	Nominal Wall inch (mm)	Outside Diameter inch (mm)	Wall inch (mm)	Fin Height inch (mm)	Finished Fin OD inch (mm)	Min. Wall Under Fins inch (mm)	Root Diameter inch (mm)

UNS C70600

65-264049	5/8 (15.88)	.049 (1.245)	.625 (15.88)	.069 (1.75)	.063 (1.588)	.620 (15.75)	.044 (1.118)	.500 (12.70)
65-264058	5/8 (15.88)	.058 (1.473)	.625 (15.88)	.078 (1.98)	.063 (1.588)	.620 (15.75)	.049 (1.245)	.500 (12.70)
65-265028	3/4 (19.05)	.028 (0.711)	.750 (19.05)	.051 (1.30)	.063 (1.588)	.745 (18.92)	.025 (0.635)	.625 (15.88)
65-265035	3/4 (19.05)	.035 (0.889)	.750 (19.05)	.055 (1.40)	.063 (1.588)	.745 (18.92)	.031 (0.787)	.625 (15.88)
65-265042	3/4 (19.05)	.042 (1.067)	.750 (19.05)	.062 (1.57)	.063 (1.588)	.745 (18.92)	.037 (0.940)	.625 (15.88)
65-265049	3/4 (19.05)	.049 (1.245)	.750 (19.05)	.069 (1.75)	.063 (1.588)	.745 (18.92)	.044 (1.118)	.625 (15.88)
65-265058	3/4 (19.05)	.058 (1.473)	.750 (19.05)	.078 (1.98)	.063 (1.588)	.745 (18.92)	.049 (1.245)	.625 (15.88)
65-265065	3/4 (19.05)	.065 (1.651)	.750 (19.05)	.085 (2.16)	.063 (1.588)	.745 (18.92)	.058 (1.473)	.625 (15.88)
65-265072	3/4 (19.05)	.072 (1.829)	.750 (19.05)	.092 (2.34)	.063 (1.588)	.745 (18.92)	.065 (1.651)	.625 (15.88)
65-265428	3/4 (19.05)	.028 (0.711)	.750 (19.05)	.045 (1.14)	.063 (1.588)	.743 (18.87)	.025 (0.635)	.660 (16.76)
65-267042	1 (25.40)	.042 (1.067)	.998 (25.35)	.062 (1.57)	.063 (1.588)	.995 (25.27)	.039 (0.991)	.875 (22.23)
65-267049	1 (25.40)	.049 (1.245)	1.00 (25.40)	.069 (1.75)	.063 (1.588)	.995 (25.27)	.044 (1.118)	.875 (22.23)
65-267065	1 (25.40)	.065 (1.651)	1.00 (25.40)	.085 (2.16)	.063 (1.588)	.995 (25.27)	.058 (1.473)	.875 (22.23)

UNS C71500

65-264049	5/8 (15.88)	.049 (1.245)	.625 (15.88)	.069 (1.75)	.063 (1.588)	.620 (15.75)	.044 (1.118)	.500 (12.70)
65-264058	5/8 (15.88)	.058 (1.473)	.625 (15.88)	.078 (1.98)	.063 (1.588)	.620 (15.75)	.049 (1.245)	.500 (12.70)
65-265035	3/4 (19.05)	.035 (0.889)	.750 (19.05)	.055 (1.40)	.063 (1.588)	.745 (18.92)	.031 (0.787)	.625 (15.88)
65-265049	3/4 (19.05)	.049 (1.245)	.750 (19.05)	.069 (1.75)	.063 (1.588)	.745 (18.92)	.044 (1.118)	.625 (15.88)
65-265058	3/4 (19.05)	.058 (1.473)	.750 (19.05)	.078 (1.98)	.063 (1.588)	.745 (18.92)	.049 (1.245)	.625 (15.88)
65-265065	3/4 (19.05)	.065 (1.651)	.750 (19.05)	.085 (2.16)	.063 (1.588)	.745 (18.92)	.058 (1.473)	.625 (15.88)
65-265072	3/4 (19.05)	.072 (1.829)	.750 (19.05)	.092 (2.34)	.063 (1.588)	.745 (18.92)	.065 (1.651)	.625 (15.88)
65-267065	1 (25.40)	.065 (1.651)	1.00 (25.40)	.085 (2.16)	.063 (1.588)	.990 (25.15)	.058 (1.473)	.875 (22.23)

S/T Trufin®

S/T Trufin® - 26 Fins per Inch

Catalog Number	Weight Per Unit Length lb/ft (kg/m)	Nominal Inside Dia. inch (mm)	Actual Inside Surface Area ft ² /ft (m ² /m)	Actual Outside Surface Area ft ² /ft (m ² /m)
UNS C12200				
65-264028	0.321 (0.478)	0.444 (11.28)	0.116 (0.04)	0.520 (0.16)
65-264035	0.354 (0.527)	0.430 (10.92)	0.113 (0.03)	0.520 (0.16)
65-264049	0.432 (0.643)	0.402 (10.21)	0.105 (0.03)	0.520 (0.16)
65-265025	0.387 (0.576)	0.575 (14.61)	0.151 (0.05)	0.637 (0.19)
65-265028	0.390 (0.580)	0.569 (14.45)	0.149 (0.05)	0.637 (0.19)
65-265035	0.409 (0.608)	0.555 (14.10)	0.145 (0.04)	0.637 (0.19)
65-265042	0.472 (0.702)	0.541 (13.74)	0.142 (0.04)	0.637 (0.19)
65-265049	0.520 (0.773)	0.527 (13.39)	0.138 (0.04)	0.637 (0.19)
65-265058	0.573 (0.853)	0.509 (12.93)	0.133 (0.04)	0.637 (0.19)
65-265065	0.630 (0.937)	0.495 (12.57)	0.130 (0.04)	0.637 (0.19)
65-265072	0.669 (0.996)	0.481 (12.22)	0.126 (0.04)	0.637 (0.19)
65-267049	0.724 (1.078)	0.775 (19.69)	0.203 (0.06)	0.871 (0.27)
65-267065	0.887 (1.319)	0.745 (18.92)	0.195 (0.06)	0.871 (0.27)
UNS C70600				
65-264049	0.437 (0.650)	0.402 (10.21)	0.105 (0.03)	0.520 (0.16)
65-264058	0.486 (0.723)	0.384 (9.75)	0.101 (0.03)	0.520 (0.16)
65-265028	0.390 (0.580)	0.569 (14.45)	0.149 (0.05)	0.637 (0.19)
65-265035	0.432 (0.643)	0.555 (14.10)	0.145 (0.04)	0.637 (0.19)
65-265042	0.482 (0.718)	0.541 (13.74)	0.142 (0.04)	0.637 (0.19)
65-265049	0.520 (0.773)	0.527 (13.39)	0.138 (0.04)	0.637 (0.19)
65-265058	0.580 (0.863)	0.509 (12.93)	0.133 (0.04)	0.637 (0.19)
65-265065	0.630 (0.937)	0.495 (12.57)	0.130 (0.04)	0.637 (0.19)
65-265072	0.669 (0.996)	0.481 (12.22)	0.126 (0.04)	0.637 (0.19)
65-265428	0.361 (0.538)	0.604 (15.34)	0.158 (0.05)	0.491 (0.15)
65-267042	0.721 (1.072)	0.789 (20.04)	0.207 (0.06)	0.871 (0.27)
65-267049	0.732 (1.090)	0.775 (19.69)	0.203 (0.06)	0.871 (0.27)
65-267065	0.887 (1.319)	0.745 (18.92)	0.195 (0.06)	0.871 (0.27)
UNS C71500				
65-264049	0.434 (0.646)	0.402 (10.21)	0.105 (0.03)	0.520 (0.16)
65-264058	0.486 (0.723)	0.384 (9.75)	0.101 (0.03)	0.520 (0.16)
65-265035	0.432 (0.643)	0.555 (14.10)	0.145 (0.04)	0.637 (0.19)
65-265049	0.520 (0.773)	0.527 (13.39)	0.138 (0.04)	0.637 (0.19)
65-265058	0.580 (0.863)	0.509 (12.93)	0.133 (0.04)	0.637 (0.19)
65-265065	0.639 (0.951)	0.495 (12.57)	0.130 (0.04)	0.637 (0.19)
65-265072	0.669 (0.996)	0.481 (12.22)	0.126 (0.04)	0.637 (0.19)
65-267065	0.887 (1.319)	0.745 (18.92)	0.195 (0.06)	0.871 (0.27)

S/T Trufin®

S/T Trufin® - 32 Fins per Inch

Catalog Number	Weight Per Unit Length lb/ft (kg/m)	Nominal Inside Dia. inch (mm)	Actual Inside Surface Area ft²/ft (m²/m)	Actual Outside Surface Area ft²/ft (m²/m)
UNS C71500				
70-3240065	0.520 (0.773)	0.415 (10.54)	0.109 (0.03)	0.448 (0.14)

Standard Sizes			Plain End Dimensions		Finned Section Dimensions			
Catalog Number	Outside Diameter inch (mm)	Nominal Wall inch (mm)	Outside Diameter inch (mm)	Wall inch (mm)	Fin Height inch (mm)	Finished Fin OD inch (mm)	Min. Wall Under Fins inch (mm)	Root Diameter inch (mm)
UNS C70600								
70-3240065	3/4 (19.05)	.065 (1.651)	.620 (15.75)	.085 (2.16)	.105 (2.667)	.618 (15.70)	.058 (1.473)	.540 (13.72)

S/T Trufin® - 35 Fins per Inch

Standard Sizes			Plain End Dimensions		Finned Section Dimensions			
Catalog Number	Outside Diameter inch (mm)	Nominal Wall inch (mm)	Outside Diameter inch (mm)	Wall inch (mm)	Fin Height inch (mm)	Finished Fin OD inch (mm)	Min. Wall Under Fins inch (mm)	Root Diameter inch (mm)
UNS C12200								
70-3550028	3/4 (19.05)	.028 (0.711)	.748 (19.00)	.043 (1.09)	.038 (0.953)	.744 (18.90)	.023 (0.584)	.675 (17.15)
70-3550035	3/4 (19.05)	.035 (0.889)	.748 (19.00)	.050 (1.27)	.038 (0.953)	.744 (18.90)	.030 (0.762)	.675 (17.15)
70-3550042	3/4 (19.05)	.042 (1.067)	.748 (19.00)	.058 (1.47)	.038 (0.953)	.744 (18.90)	.037 (0.940)	.675 (17.15)
70-3550049	3/4 (19.05)	.049 (1.245)	.748 (19.00)	.062 (1.57)	.038 (0.953)	.744 (18.90)	.044 (1.118)	.675 (17.15)
70-3550028	3/4 (19.05)	.028 (0.711)	.748 (19.00)	.045 (1.14)	.038 (0.953)	.744 (18.90)	.023 (0.584)	.675 (17.15)
70-3550035	3/4 (19.05)	.035 (0.889)	.748 (19.00)	.052 (1.32)	.038 (0.953)	.744 (18.90)	.030 (0.762)	.675 (17.15)
70-3550042	3/4 (19.05)	.042 (1.067)	.748 (19.00)	.058 (1.47)	.038 (0.953)	.744 (18.90)	.037 (0.940)	.675 (17.15)
70-3550049	3/4 (19.05)	.049 (1.245)	.748 (19.00)	.065 (1.65)	.038 (0.953)	.744 (18.90)	.044 (1.118)	.675 (17.15)

Catalog Number	Weight Per Unit Length lb/ft (kg/m)	Nominal Inside Dia. inch (mm)	Actual Inside Surface Area ft²/ft (m²/m)	Actual Outside Surface Area ft²/ft (m²/m)
UNS C12200				
70-3550028	0.331 (0.493)	0.619 (15.72)	0.162 (0.05)	0.550 (0.17)
70-3550035	0.390 (0.580)	0.605 (15.37)	0.158 (0.05)	0.550 (0.17)
70-3550042	0.452 (0.673)	0.591 (15.01)	0.155 (0.05)	0.550 (0.17)
70-3550049	0.486 (0.723)	0.577 (14.66)	0.151 (0.05)	0.550 (0.17)
70-3550028	0.346 (0.514)	0.619 (15.72)	0.162 (0.05)	0.550 (0.17)
70-3550035	0.405 (0.602)	0.605 (15.37)	0.158 (0.05)	0.550 (0.17)
70-3550042	0.459 (0.683)	0.591 (15.01)	0.155 (0.05)	0.550 (0.17)
70-3550049	0.507 (0.755)	0.577 (14.66)	0.151 (0.05)	0.550 (0.17)

S/T Trufin®

S/T Trufin® - 40 Fins per Inch

Standard Sizes			Plain End Dimensions		Finned Section Dimensions			
Catalog Number	Outside Diameter inch (mm)	Nominal Wall inch (mm)	Outside Diameter inch (mm)	Wall inch (mm)	Fin Height inch (mm)	Finished Fin OD inch (mm)	Min. Wall Under Fins inch (mm)	Root Diameter inch (mm)
UNS C12200								
70-4040149	5/8 (15.88)	.049 (1.245)	.623 (15.82)	.062 (1.57)	.034 (0.864)	.620 (15.75)	.044 (1.118)	.550 (13.97)
70-4040225	5/8 (15.88)	.025 (0.635)	.623 (15.82)	.047 (1.19)	.056 (1.422)	.618 (15.70)	.022 (0.559)	.500 (12.70)
70-4040228	5/8 (15.88)	.028 (0.711)	.623 (15.82)	.050 (1.27)	.056 (1.422)	.618 (15.70)	.025 (0.635)	.500 (12.70)
70-4040235	5/8 (15.88)	.035 (0.889)	.623 (15.82)	.055 (1.40)	.056 (1.422)	.618 (15.70)	.031 (0.787)	.500 (12.70)
70-4050128	3/4 (19.05)	.028 (0.711)	.748 (19.00)	.043 (1.09)	.034 (0.864)	.745 (18.92)	.025 (0.635)	.675 (17.15)
70-4050135	3/4 (19.05)	.035 (0.889)	.748 (19.00)	.051 (1.30)	.034 (0.864)	.745 (18.92)	.031 (0.787)	.675 (17.15)
70-4050142	3/4 (19.05)	.042 (1.067)	.748 (19.00)	.057 (1.45)	.034 (0.864)	.745 (18.92)	.037 (0.940)	.675 (17.15)
70-4050149	3/4 (19.05)	.049 (1.245)	.748 (19.00)	.062 (1.57)	.034 (0.864)	.745 (18.92)	.044 (1.118)	.675 (17.15)
70-4050228	3/4 (19.05)	.028 (0.711)	.748 (19.00)	.052 (1.31)	.056 (1.422)	.743 (18.87)	.025 (0.635)	.625 (15.88)
70-4050235	3/4 (19.05)	.035 (0.889)	.748 (19.00)	.055 (1.40)	.056 (1.422)	.743 (18.87)	.031 (0.787)	.625 (15.88)
70-4040225	5/8 (15.88)	.025 (0.635)	.623 (15.82)	.047 (1.19)	.056 (1.422)	.618 (15.70)	.022 (0.559)	.500 (12.70)
70-4040228	5/8 (15.88)	.028 (0.711)	.623 (15.82)	.050 (1.27)	.056 (1.422)	.618 (15.70)	.025 (0.635)	.500 (12.70)
70-4040235	5/8 (15.88)	.035 (0.889)	.623 (15.82)	.055 (1.40)	.056 (1.422)	.618 (15.70)	.031 (0.787)	.500 (12.70)
70-4050128	3/4 (19.05)	.028 (0.711)	.748 (19.00)	.043 (1.09)	.034 (0.864)	.745 (18.92)	.025 (0.635)	.675 (17.15)
70-4050135	3/4 (19.05)	.035 (0.889)	.748 (19.00)	.051 (1.30)	.034 (0.864)	.745 (18.92)	.031 (0.787)	.675 (17.15)
70-4050142	3/4 (19.05)	.042 (1.067)	.748 (19.00)	.057 (1.45)	.034 (0.864)	.745 (18.92)	.037 (0.940)	.675 (17.15)
70-4050149	3/4 (19.05)	.049 (1.245)	.748 (19.00)	.062 (1.57)	.034 (0.864)	.745 (18.92)	.044 (1.118)	.675 (17.15)
70-4050158	3/4 (19.05)	.058 (1.473)	.748 (19.00)	.070 (1.78)	.034 (0.864)	.745 (18.92)	.049 (1.245)	.675 (17.15)
70-4050228	3/4 (19.05)	.028 (0.711)	.748 (19.00)	.052 (1.31)	.056 (1.422)	.743 (18.87)	.025 (0.635)	.625 (15.88)
70-4050235	3/4 (19.05)	.035 (0.889)	.748 (19.00)	.055 (1.40)	.056 (1.422)	.743 (18.87)	.031 (0.787)	.625 (15.88)
70-4050242	3/4 (19.05)	.042 (1.067)	.748 (19.00)	.062 (1.57)	.056 (1.422)	.743 (18.87)	.037 (0.940)	.625 (15.88)
70-4050249	3/4 (19.05)	.049 (1.245)	.748 (19.00)	.069 (1.75)	.056 (1.422)	.743 (18.87)	.044 (1.118)	.625 (15.88)
70-4050258	3/4 (19.05)	.058 (1.473)	.748 (19.00)	.078 (1.98)	.056 (1.422)	.743 (18.87)	.049 (1.245)	.625 (15.88)

S/T Trufin®

S/T Trufin® - 40 Fins per Inch

Catalog Number	Weight Per Unit Length lb/ft (kg/m)	Nominal Inside Dia. inch (mm)	Actual Inside Surface Area ft²/ft (m²/m)	Actual Outside Surface Area ft²/ft (m²/m)
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UNS C12200

70-4040149	0.393 (0.585)	0.448 (11.38)	0.117 (0.04)	0.553 (0.17)
70-4040225	0.296 (0.440)	0.452 (11.48)	0.118 (0.04)	0.805 (0.25)
70-4040228	0.327 (0.487)	0.444 (11.28)	0.116 (0.04)	0.805 (0.25)
70-4040235	0.353 (0.525)	0.430 (10.92)	0.113 (0.03)	0.805 (0.25)
70-4050128	0.343 (0.510)	0.619 (15.72)	0.162 (0.05)	0.645 (0.20)
70-4050135	0.406 (0.604)	0.605 (15.37)	0.159 (0.05)	0.645 (0.20)
70-4050142	0.450 (0.670)	0.591 (15.01)	0.155 (0.05)	0.645 (0.20)
70-4050149	0.486 (0.723)	0.577 (14.66)	0.151 (0.05)	0.645 (0.20)
70-4050228	0.405 (0.603)	0.569 (14.45)	0.152 (0.05)	0.924 (0.28)
70-4050235	0.431 (0.641)	0.555 (14.10)	0.148 (0.05)	0.924 (0.28)

UNS C70600 and 71500

70-4040225	0.296 (0.440)	N/D	N/D	N/D
70-4040228	0.324 (0.482)	0.444 (11.28)	0.116 (0.04)	0.805 (0.25)
70-4040235	0.353 (0.525)	N/D	N/D	N/D
70-4050128	0.339 (0.504)	0.619 (15.72)	0.162 (0.05)	0.645 (0.20)
70-4050135	0.402 (0.598)	0.605 (15.37)	0.159 (0.05)	0.645 (0.20)
70-4050142	0.450 (0.670)	0.591 (15.01)	0.155 (0.05)	0.645 (0.20)
70-4050149	0.486 (0.723)	0.577 (14.66)	0.151 (0.05)	0.645 (0.20)
70-4050158	0.542 (0.807)	0.559 (14.20)	0.146 (0.04)	0.645 (0.20)
70-4050228	0.405 (0.603)	0.569 (14.45)	0.152 (0.05)	0.924 (0.28)
70-4050235	0.431 (0.641)	0.555 (14.10)	0.149 (0.05)	0.924 (0.28)
70-4050242	0.486 (0.723)	0.541 (13.74)	0.145 (0.04)	0.924 (0.28)
70-4050249	0.535 (0.796)	0.527 (13.39)	0.141 (0.04)	0.924 (0.28)
70-4050258	0.597 (0.888)	0.515 (13.08)	0.133 (0.04)	0.924 (0.28)