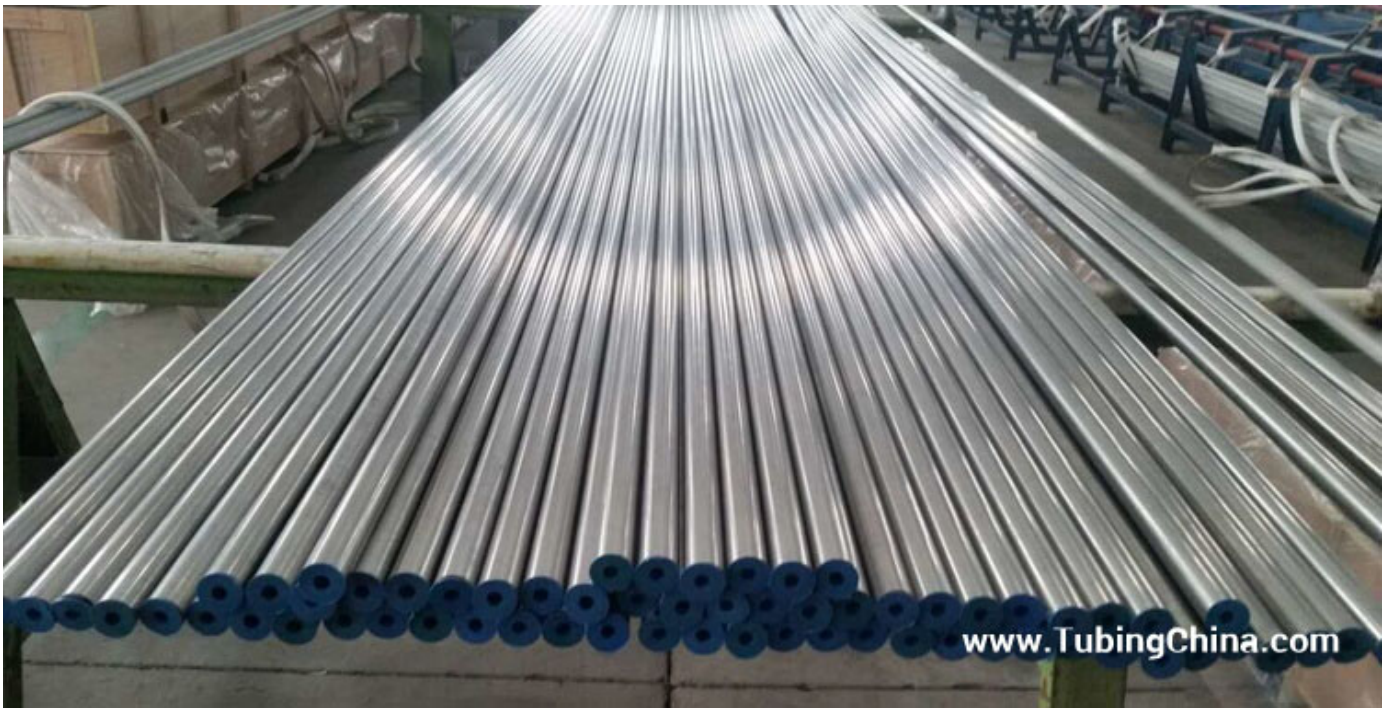
Guanyu Tube®

Heat Exchanger Tubes | Stainless Steel Heat Exchanger Tubes



Guanyu Tube is specialized manufacturer of **Heat Exchanger Tubes**, ASTM A213 ASME SA213 TP304 TP304L TP304H TP316 TP316L TP316Ti TP317 TP317L TP317LMN TP321 TP321H TP347H TP309S TP310S TP310H TP904L N08904 254SMo S31254 **Heat Exchanger Tubes**. ASTM A789 ASME SA789 2205 S31803 S32205 S32750 S32304 S32760 S32101 Stainless Steel **Heat Exchanger Tubes**. Delivery condition in Bright Annealing or Annealing and Pickling.

Guanyu Tube has been assessed for approval of its production facility for **Heat Exchanger Tube**. A quality control system established and operated by the company was audited by TUV, and found the company has the facilities and capabilities to fabricate the cold finished (Cold-drawing and Rolling) Stainless Steel Seamless Pipes (Tubes) complied with the requirement of the applicable ASME/ASTM material standard of ASME Boiler and Pressure Vessel Code Section II Part A.

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Guanyu Heat Exchanger Tubes Advantage

1. Good Straigtness
2. Super Clean outside surface and inside surface even for extra-long tubes.
3. All set of testing equipment maximum in 25 meters. We have 25 meters long Hydostatic Test Machines, 25 Meters long Eddy Current Test and Ultrasonic Test Machines, 25 meters Acid washing Tanks.

When you want to reduce the risk of leakage in your Pressure Vessel and Instrumentation system, consider **Guanyu Stainless Steel Tube**, Nickel Alloy Tubing.

When it comes to stainless steel tubing for Pressure Vessel, hydraulic and instrumentation systems processing harsh media or in corrosive environments, the safety, integrity, and reliability of the tubing are critical. That's why Guanyu to bring you quality assured Stainless Steel Tubing, Nickel Alloy Tubing, Brass Alloy Tubes, Copper Nickel Alloy Pipe.

Heat Exchanger Tubes Mainly Testing Items

Accoring to ASTM A213 and ASTM A1016, EN 10216-5:

1. Heat Treatment and Solution Annealing / Bright Annealing
2. Cutting to required length and deburring,
3. Chemical Composition Analysis Test With 100% PMI and One tube from each heat by Direct Reading Spectrometer
4. Visual Testing and Endoscope Testing for Surface Quality
5. 100% Hydrostatic Test and 100% Eddy Current Test
6. Ultrasonic Test subject to the MPS (Material Purchase Specification)
7. Mechanical Tests includes Tension Test, Flattening Test, Flaring Test, Hardness Test
8. Impact Test subject to Standard request
9. Grain Size Test and Intergranular Corrosion Test
10. Ultrasoic measuring of Wall Thickness

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Heat Exchanger Tube Standard Specification

ASTM A213/A213M Standard Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes

ASTM A269/A269M Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service

ASTM A789 Standard Specification for Seamless and Welded Ferritic/Austenitic Stainless Steel for General Service

EN 10216-5 Seamless steel tubes for pressure purposes

ASME SB167 / ASME SB-423 / ASME SB-163 / ASME SB338

- A213 – Seamless Stainless Steel Boiler, Super heater, and Heat-Exchanger Tubes
- A249 – Welded Stainless Steel Boiler, Super heater, Heat Exchanger, and Condenser Tubes
- A268 – Seamless and Welded Stainless Steel Tubing for General Service
- A269 – Seamless and Welded Austenitic Stainless Steel Tubing for General Service
- A270 – Seamless and Welded Stainless Steel Sanitary Tubing
- A688 – Welded Austenitic Stainless Steel Feedwater Heater Tubes
- A789 – Seamless and Welded Stainless Steel Tubing for General Service
- JIS G3463 Stainless Steel for Boiler and Heat Exchanger Tubes
- GB/T 30065 Welded ferritic stainless steel tubes for feedwater heater
- GB/T 30066 Welded ferritic stainless steel tubes for heat-exchanger and condenser

Heat Exchanger Tubes Mainly Application

Heat Exchanger Tubes are used in Shell and Tube Heat Exchanger with all types of process industries. We offer the market's widest selection of stainless steel grades and has extensive experience of manufacturing heat exchanger tubes.

Description: Heat-exchanger equipment, pipelines and pipeline components

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Petro-Chemical Industry
HVAC (Heating Ventilation Air Conditioning), refrigeration
Food and Beverages
Power Generation

Shell and tube heat exchangers are frequently selected for such applications as:

- Process liquid or gas cooling
- Process or refrigerant vapor or steam condensing
- Process liquid, steam or refrigerant evaporation
- Process heat removal and preheating of feed water
- Thermal energy conservation efforts, heat recovery
- Compressor, turbine and engine cooling, oil and jacket water
- Hydraulic and lube oil cooling

Heat Exchanger Tubes Size

OD: 12.7(1/2"),15.88(5/8"), 19.05, 20, 22.25, 25.4, 31.75, 38.1, 48.3, 50.8mm etc;

WT: 0.889, 1.245, 1.651, 2.0, 2.11, 2.769, 3.404mm etc;

		BWG	BWG	BWG	BWG	BWG	BWG	BWG	BWG
		25	22	20	18	16	14	12	10
		WT mm	WT mm	WT mm	WT mm	WT mm	WT mm	WT mm	WT mm
Outside Diameter	**Outside Diameter**	0.508	0.71	0.89	1.24	1.65	2.11	2.77	3.40
mm	inch		kg/m	kg/m	kg/m	kg/m	kg/m	kg/m	kg/m
6.35	1/4	0.081	0.109	0.133	0.174	0.212			
9.53	3/8	0.126	0.157	0.193	0.257	0.356	0.429		
12.7	1/2		0.214	0.263	0.356	0.457	0.612	0.754	

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19.05	3/4	0.327	0.405	0.553	0.729	0.895	1.236	
25.4	1	0.44	0.546	0.75	0.981	1.234	1.574	2.05
31.75	1 1/4	0.554	0.688	0.947	1.244	1.574	2.014	2.641
38.1	1 1/2	0.667	0.832	1.144	1.514	1.904	2.454	3.233
44.5	1 3/4			1.342	1.774	2.244	2.894	3.5
50.8	2			1.549	2.034	2.574	3.334	4.03
63.5	2 1/2			1.949	2.554	3.244	4.214	5.13
76.2	3			2.345	3.084	3.914	5.094	6.19
88.9	3 1/2			2.729	3.609	4.584	5.974	7.27
101.6	4				4.134	5.254	6.854	8.35
114.3	4 1/2				4.654	5.924	7.734	9.43

Mainly Heat Exchanger Tubing Dimension

Size:1/4" × 0.035" Heat Exchanger Tubing
Size:3/8" × 0.035"
Size:1/2" × 0.035"
Size:5/8" × 0.035"
Size:3/4" × 0.035" Heat Exchanger Tubes
Size:1" × 0.035"
Size:5/16" × 0.035"
Size:1/4" × 0.049"
Size:3/8" × 0.049"

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Size:5/8" × 0.049"
Size:3/4" × 0.049"
Size:1" × 0.049" Heat Exchanger Tube
Size:1/4" × 0.065"
Size:3/8" × 0.065"
Size:1/2" × 0.065"
Size:5/8" × 0.065"
Size:3/4" × 0.065"
Size:1" × 0.065"
Size:1" × 0.120"

Heat Exchanger Tubes Weight Chart

OD inches	WT inches	D/t Ratio	ID inches	Tube Cross Sectional Area (in2)	Internal Area (in2)
0.250	0.020	12.50	0.210	0.0145	0.0346
0.250	0.028	8.93	0.194	0.0195	0.0296
0.250	0.035	7.14	0.180	0.0236	0.0254
0.250	0.049	5.10	0.152	0.0309	0.0181
0.250	0.065	3.85	0.120	0.0378	0.0113
0.375	0.020	18.75	0.335	0.0223	0.0881
0.375	0.028	13.39	0.319	0.0305	0.0799
0.375	0.035	10.71	0.305	0.0374	0.0731
0.375	0.049	7.65	0.277	0.0502	0.0603

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0.500	0.020	25.00	0.460	0.0302	0.1662
0.500	0.028	17.86	0.444	0.0415	0.1548
0.500	0.035	14.29	0.430	0.0511	0.1452
0.500	0.049	10.20	0.402	0.0694	0.1269
0.500	0.065	7.69	0.370	0.0888	0.1075
0.500	0.083	6.02	0.334	0.1087	0.0876
0.625	0.020	31.25	0.585	0.0380	0.2688
0.625	0.028	22.32	0.569	0.0525	0.2543
0.625	0.035	17.86	0.555	0.0649	0.2419
0.625	0.049	12.76	0.527	0.0887	0.2181
0.625	0.065	9.62	0.495	0.1144	0.1924
0.625	0.083	7.53	0.459	0.1413	0.1655
0.625	0.095	6.58	0.435	0.1582	0.1486
0.625	0.109	5.73	0.407	0.1767	0.1301
0.750	0.028	26.79	0.694	0.0635	0.3783
0.750	0.035	21.43	0.680	0.0786	0.3632
0.750	0.049	15.31	0.652	0.1079	0.3339
0.750	0.065	11.54	0.620	0.1399	0.3019
0.750	0.083	9.04	0.584	0.1739	0.2679
0.750	0.095	7.89	0.560	0.1955	0.2463
0.750	0.109	6.88	0.532	0.2195	0.2223
0.750	0.120	6.25	0.510	0.2375	0.2043
0.875	0.020	43.75	0.835	0.0537	0.5476

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0.875	0.035	25.00	0.805	0.0924	0.5090
0.875	0.049	17.86	0.777	0.1272	0.4742
0.875	0.065	13.46	0.745	0.1654	0.4359
0.875	0.083	10.54	0.709	0.2065	0.3948
0.875	0.095	9.21	0.685	0.2328	0.3685
0.875	0.109	8.03	0.657	0.2623	0.3390
0.875	0.120	7.29	0.635	0.2846	0.316L7
1.000	0.028	35.71	0.944	0.0855	0.6999
1.000	0.035	28.57	0.930	0.1061	0.6793
1.000	0.049	20.41	0.902	0.1464	0.6390
1.000	0.065	15.38	0.870	0.1909	0.5945
1.000	0.083	12.05	0.834	0.2391	0.5463
1.000	0.095	10.53	0.810	0.2701	0.5153
1.000	0.109	9.17	0.782	0.3051	0.4803
1.000	0.120	8.33	0.760	0.3318	0.4536
1.000	0.134	7.46	0.732	0.3646	0.4208
1.250	0.035	35.71	1.180	0.1336	1.0936
1.250	0.049	25.51	1.152	0.1849	1.0423
1.250	0.065	19.23	1.120	0.2420	0.9852
1.250	0.083	15.06	1.084	0.316L3	0.9229
1.250	0.095	13.16	1.060	0.3447	0.8825
1.250	0.109	11.47	1.032	0.3907	0.8365
1.250	0.120	10.42	1.010	0.4260	0.8012

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1.500	0.035	42.86	1.430	0.1611	1.6061
1.500	0.049	30.61	1.402	0.2234	1.5438
1.500	0.065	23.08	1.370	0.2930	1.4741
1.500	0.083	18.07	1.334	0.3695	1.3977
1.500	0.095	15.79	1.310	0.4193	1.3478
1.500	0.109	13.76	1.282	0.4763	1.2908
1.500	0.120	12.50	1.260	0.5202	1.2469
1.500	0.134	11.19	1.232	0.5750	1.1921
1.500	0.148	10.14	1.204	0.6286	1.1385
1.750	0.035	50.00	1.680	0.1886	2.2167
1.750	0.049	40.82	1.902	0.3003	2.8413
1.750	0.065	26.92	1.620	0.3441	2.0612
1.750	0.083	21.08	1.584	0.4347	1.9706
1.750	0.095	18.42	1.560	0.4939	1.9113
1.750	0.109	16.06	1.532	0.5619	1.8433
1.750	0.120	14.58	1.510	0.6145	1.7908
1.750	0.134	13.06	1.482	0.6803	1.7250
1.750	0.148	11.82	1.454	0.7449	1.6604
1.750	0.165	10.61	1.420	0.8216	1.5837
2.000	0.035	57.14	1.930	0.2161	2.9255
2.000	0.049	40.82	1.902	0.3003	2.8413
2.000	0.065	30.77	1.870	0.3951	2.7465
2.000	0.083	24.10	1.834	0.4999	2.6417

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2.000	0.109	18.35	1.782	0.6475	2.4941
2.000	0.120	16.67	1.760	0.7087	2.4328
2.000	0.134	14.93	1.732	0.7855	2.3561
2.000	0.148	13.51	1.704	0.8611	2.2805
2.000	0.165	12.12	1.670	0.9512	2.1904

Heat Exchanger Tubes Marking and Packing

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Stainless Steel Heat Exchanger Tubes Exported Countries

MIDDLE EAST	AFRICA	EUROPE	ASIA
Saudi Arabia	Nigeria	Russia	India
Iran	Algeria	Norway	Singapore
Iraq	Angola	Germany	Malaysia
UAE	South Africa	France	Indonesia
Qatar	Libya	Italy	Thailand
Bahrain	Egypt	UK	Vietnam
Oman	Sudan	Spain	South Korea
Kuwait	Equatorial Guinea	Ukraine	Japan
Turkey	The Republic Of Congo	Netherland	Sri Lanka
Yemen	Gabon	Belgium	Maldives
Syria		Greece	Bangladesh
Jordan	**NORTH AMERICA**	Czech Republic	Mayanmar
Cyprus	USA	Portugal	Taiwan
	Canada	Hungary	Cambodia
	Mexico	Albania	**SOUTH AMERICA**
	Panama	Austria	Argentina
	Costa Rica	Switzerland	Bolivia
	Puerto Rica	Slovakia	Brazil

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	Bahamas Denmark	Croatia Slovenia Malta	Colombia Ecuador Guyana Paraguay Uruguay

Heat Exchanger Tubes Related Links

Pipe and Tube Bender | U Tube heat exchanger | U bend Stainless Steel Tube | ASTM A556M | “U” Bent Cold Drawn Stainless Steel Tube | Bend Testing | Bend Tubing Happens | Bending Stainless Steel

Integral Finned Tubes / Extruded Aluminum Finned Tubes

HFW High Frequency Welded Helical Spiral Serrated Finned Tubes

A179 A192 A210 A213 T5 T9 T11 T22 T91 Carbon Steel A269 A213 304 304L 316 316L Stainless Steel Extruded Serrated Finned Tubes

B111 C28000 C44300 C68700 C70600 C71500 Brass Alloys Copper Nickel Alloy Integral Low Finned Tubes

Integral Finned Tubes / Extruded Aluminum Finned Tubes

Heat Exchanger
Stainless Steel U Bend Tube
Heat Exchanger Tube
ASTM B163 Nickel Alloy U bend Tubes
ASTM B395 Copper Alloy U Bend Tubes
Heat Exchanger Tubes Specification

Previous: Duplex Steel Tube Duplex Steel Pipe Manufacturer

Next: U Bend Tube | U Bend Stainless Steel Tubes for Heat Exchanger

Related Products