

Highly efficient high-performance Titanium tubes



Enhanced Titanium tubes for challenging environments

The high-performance tubes from Wieland Thermal Solutions are optimized for use as condenser or evaporator tubes in shell-and-tube heat exchangers. Made of titanium, these tubes meet the highest demands for long-term and corrosion resistance.

Material Specification

UNS Nomenclature	R50400
Common Industry Name	SB338 Grade 2
*ASTM Spec	B338
Tensile Strength:	min. 50 ksi (345 MPa)
Yield Strength:	min. 40 ksi (275 MPa)

** For equivalent ASME specification, mechanical property data is identical.*



Condenser tubes GEWA-CLF and CPL

The enhanced structures of GEWA-CLF and CPL titanium tubes have an optimized inundation behavior of condensed refrigerants on the outside of the tube. In combination with low fouling structures on the tubeside which are specially adapted to challenging water qualities, this results in highest heat transfer coefficients. For extreme fouling, we also offer plain inner surfaces.

Evaporator tubes GEWA-BLF and BPL

The enhanced structures of GEWA-BLF and BPL on the tube surface are optimized for the nucleate boiling of refrigerants. Complemented by low fouling structures optimally suitable for challenging water qualities, highest heat transfer coefficients are achieved. For extreme fouling, we also offer plain inner surfaces.



ThermalS

On our ThermalS online platform, we make our thermal engineering know-how available to you. It allows you to conveniently thermally design your shell-and-tube condensers and evaporators with our GEWA-BLF/CLF titanium tubes.

Benefits at a glance

- **Efficiency** | Significantly higher heat transfer coefficients than plain or low finned tubes
- **Robust** | Resistant in sewage/waste water and seawater environments
- **Durability** | Corrosion-free and long-term resistance
- **Safety** | Highest corrosion resistance of titanium
- **Know-how** | Precise thermal design with ThermalS and comprehensive technical advice

Tube	Plain End		Finned Section				Approx Weight
	d1	s1	d4	d3	s2	d2	
GEWA-BLF 3/4" x 0.63	19.00	1.25	18.85	17.85	0.63	16.10	0.237
GEWA-BLF 3/4" x 0.71	19.00	1.25	18.85	17.85	0.71	16.00	0.265
GEWA-BPL 3/4" x 0.63	19.00	1.25	18.85	17.85	0.63	16.59	0.233
GEWA-BPL 3/4" x 0.71	19.00	1.25	18.85	17.85	0.71	16.43	0.263
GEWA-CLF 3/4" x 0.63	19.00	1.25	18.85	17.85	0.63	16.59	0.237
GEWA-CLF 3/4" x 0.71	19.00	1.25	18.85	17.85	0.71	16.43	0.265
GEWA-CPL 3/4" x 0.63	19.00	1.25	18.85	17.85	0.63	16.59	0.233
GEWA-CPL 3/4" x 0.71	19.00	1.25	18.85	17.85	0.71	16.43	0.263



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Wieland-Werke AG | Graf-Arco-Straße 36 | 89079 Ulm | Germany
info@wieland-thermalsolutions.com | www.wieland-thermalsolutions.com