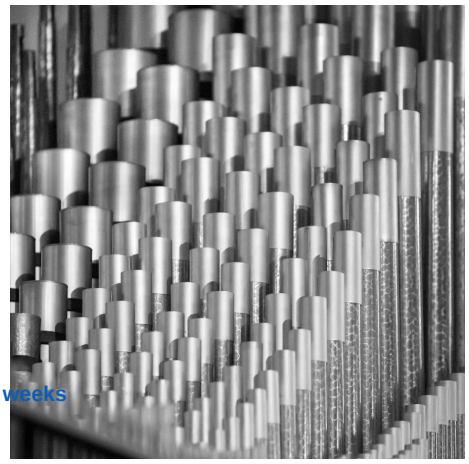
BA Finish Tubes

Bright annealed tubing for clean and instrument service



Bright annealed (BA) tube - annealed under a protective hydrogen atmosphere so it leaves the furnace with a mirror-clean, oxide-free surface that needs no pickling. The low surface roughness is what hygienic, instrument and high-purity systems are after: less product hold-up, easier passivation and a surface that cleans in place.

Stock status: Mill indent - Typical lead time: Common sizes 2 - 3 weeks; electropolished 5 - 7 weeks

Key features

- Oxide-free bright annealed surface straight from the mill - no pickling marks
- Low Ra for cleanability, passivation and minimal product hold-up
- Close dimensional control for compression and ferrule fittings
- Capped and sleeved packing so the finish reaches the installation intact

Types & configurations

Type	Specification
Stainless BA tubes	ASTM A269 / A270 in 304L and 316L, 3 - 76.2 mm OD, Ra 0.4 µm or better
Hygienic & sanitary tubes	ASTM A270 / DIN 11850 / ISO 1127 for food, dairy, brewing and pharmaceutical process lines
Instrument & impulse tubing	ASTM A269 seamless 6 / 8 / 10 / 12 mm and 1/4" - 1/2" coils and straight lengths
High purity & UHP tubing	Electropolished to Ra 0.25 µm, capped and double bagged for semiconductor and bio-pharma
Nickel alloy BA tubes	Alloy 800, 800HT, 825 and 625 bright annealed for clean high temperature and corrosive service
Heat exchanger BA tubes	Bright annealed exchanger tube where the tube side must stay deposit-free

Specifications

Property	Value
Surface finish	BA as standard (Ra 0.4 µm or better); mechanically polished and electropolished options
Size range	3 mm to 76.2 mm OD, 0.5 mm to 4 mm wall, straight lengths and coils
Tolerances	Close OD, wall and ovality control for ferrule and compression fittings
Testing	Hydrostatic or eddy current, hardness, flare and bend, surface roughness measurement
Packing	End caps and individual PE sleeving so the finish survives site handling

Standards

ASTM A269, ASTM A270, ASTM A213, ASTM B163 (nickel alloy), DIN 11850, ISO 1127, 3-A sanitary standards, EN 10204 3.1

Industries served

Pharmaceutical, Food & Beverage, Medical, Oil & Gas, Chemical Processing, Petrochemical

Typical applications

- Pharmaceutical and biotech process lines
- Food, dairy and beverage plant
- Instrument and impulse tubing on skids and platforms
- Semiconductor and high purity gas systems
- Clean steam and WFI distribution
- Analyser and sampling systems