

Plumbing Fittings Suitable for Use with Medical Gas

Clause	Comment	Requirement	Reference
Composition	Phosphorous deoxidized copper UNS C12200	Copper \geq 99.90% Phosphorous 0.015-0.040 ppm	ASTM B42
Dimensions	Suitable for use with tube having dimensions conforming to ASTM B819		ASME B16.22
Cleanliness of Components	Fittings to be cleaned following manufacture	Fittings to be sealed in bags of not more than 10 units	NFPA 99
	Interior surface clean and free from contaminants	Cleanliness \leq 550mg/m ² (47.5mg/ft ²)	CGA G 4.1

References

ASTM B42: Standard Specification for Seamless Copper Pipe, Standard Sizes
 ASME B16.22:2012 Wrought Copper and Copper Alloy Solder Joint Pressure Fittings
 NFPA 99:2012 Standard for Health Care Facilities
 CGA G4.1:2009 Cleaning Equipment for Oxygen Service

TESTING OF JUNGWOO FITTINGS

Cleanliness levels were determined using a Solvent Extraction Test as per CGA G4.1.

CLEANLINESS RESULT	CLEANLINESS SPECIFICATION
21 mg/m ²	\leq 550 mg/m ²