

Lawton K65 Data Sheet



Lawton K65 is a high copper alloy with high mechanical strength.

Typical Applications

Tubes for air conditioning and refrigeration, heating and solar engineering, brake line tubing

Temper (DIN EN12449) R300**

soft annealed R420** hard

According to DIN EN 12449

Chemical Composition		Mechanical properties (annealed)	
Fe	2.10-2.60 %	Rn	min.>300 N/mm ²
Zn	0.05-0.20%	Rn	max.>250 N/mm ²
P	0.015-0.15 %	A	min. >25%
Pb	max. 0.03 %		
Cu	balance		

**Conformity to PED 97/23/EC can be certified through product inspection by a technical inspection agency such as TUV.

Fabrication properties		Joining		Corrosion resistance
Cold working	excellent	Brazing	excellent	Lawton K65 is insensitive to stress corrosion cracking. Lawton K65 exhibits good resistance in natural atmosphere (also marine atmosphere) and industrial atmosphere. It has a better resistance to erosion and pitting corrosion than Cu-DHP in different types of water and neutral saline solutions.
Electroplating	excellent	Soft soldering	excellent	
Hot-dip tinning	excellent	Inert gas shielded		
Machinability	poor	arc welding	excellent	
		Resistance		
		welding	good	
		Laser welding	good	

LAWTON
K65

Sizes available

Type of delivery		Outside diameter mm*	Manufacture	Temper
Straight lengths (max. 7800 mm)	plain	7-108	seamless	hard or annealed
	inner-grooved	7-16	seamless	hard or annealed
Level-wound coils (LWC) (coil weight on request)	plain	7-20	seamless	hard or annealed
	inner-grooved	7-16	seamless	hard or annealed

*Wall thicknesses and other sizes on request

Relevant standards and specifications

DIN EN 12449 Seamless, round tubes for general purposes

Wieland R-1084 Seamless drawn plain or inner-grooved tubes in K65 in LWC for pressure vessels and piping

Wieland R-1085 Seamless drawn plain or inner-grooved copper tubes in K65 in straight lengths for pressure vessels and piping

VdTUV-Werkstoffblatt, new draft 03.2010 Seamless drawn tubes in CuFe2P (CW107C) Wieland K65