



LAWTON

K65

- 1st installed in 2011, hundreds of installations since
- Installed in the majority of high street Supermarkets
- Used by OEMs in equipment manufacture
- Over 80km of pipework and 50,000 fittings sold
- Certified and Warranted System. TUV Approved
- Tube available in either 120bar or 80bar MWP
- Comprehensive fittings range
- Comprehensive yet increasing fittings range
- Large UK stocks for immediate despatch



Industrie Service



www.lawtontubes.co.uk

Lawton K65

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

Material designation

EN CuFe2P CW1076

UNS* C19400

* Unified numbering system

Physical Properties*

Thermal Conductivity W/(m-K) >260

DensityG/CM3 8.91

*Reference values at room temperature

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/mm2
Zn	0.05-0.20%	Rn	max.>250 N/mm2
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	
Cold working	excellent	Brazing	excellent
Electroplating	excellent	Soft soldering	excellent
Hot-dip tinning	excellent	Inert gas shielded	
Machinability	poor	arc welding	excellent
		Resistance	
		welding	good
		Laser welding	good

Corrosion resistance

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.

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Sizes available

Type of delivery		Outside diameter mm*	Manufacture	Temper
Straight lengths	plain	7-108	seamless	hard or annealed
	inner-grooved	7-16	seamless	hard or annealed
Level-wound coils (LWC)	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



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