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TALOS®ACR copper tubes – Maximum Allowable Pressure

TALOS®ACR seamless copper tubes produced by HALCOR according to the requirements of the European Standard EN12735-1 are suitable for use in air-conditioning and refrigeration installations.

Please find below the calculation of the Maximum Allowable Pressure according to the Design by Formula (DBF) methodology of EN14276-2, harmonized with the Pressure Equipment Directive (PED) 2014/68/EU.

Copper Tube Dimensions, OD x WT (mm)		Maximum Allowable Pressure (bar)
4.763	0.76	204
6.350	0.76	148
9.525	0.81	102
12.70	0.81	76
15.875	0.89	66
19.050	0.89	55
22.225	0.81	42

- The maximum allowable pressure calculation is performed according to the “Design by Formula” (DBF) method of EN14276-2. EN14276-2 is harmonized with the Pressure Equipment Directive (PED) 2014/68/EU.
- The minus tolerance of the wall thickness is considered. according to EN12735-1 specifications.
- Annealed temper is considered for the calculations. Heat treatment such as brazing is taken into account.
- Permissible working stress is determined as $R_m/SF=220\text{MPa}/3.5$ for Cu-DHP tube.
- The maximum allowable pressure of DHP copper does not change for operating temperatures from -196°C to $+100^{\circ}\text{C}$ according to EN14276-1.
- No corrosion allowance is taken into account.
- No further processing is considered (e.g. swaging, expanding, bending etc.)