

Table 1. Mechanical properties of materials used for hydraulic brake tubing

| Material | Ultimate Tensile Strength 1000 psi (MPa) | Yield Strength 0.5% Ext.under Load 1000 psi (MPa) | Elongation % in 2 in. | Fatigue Strength (10x7 cycles) 1000 psi (MPa) | Burst Pressure* 1000 psi (MPa) |
|-------------------------------------|---|--|----------------------------------|--|---|
| Copper-brazed Steel | 48 - 55 (330 - 380) | 28 - 34 (190- 235) | 30 - 40 | 30 (210) | 19.5 (135) |
| C12200-Phosphorus deoxidized Copper | 32 - 38 (220 - 265) | 10 - 14 (70 - 100) | 45 - 60 | 10 (70) | 12 (83) |
| C70600-Copper Nickel 90-10 | 48 - 54 (330 - 370) | 16 - 22 (110 - 150) | 40 - 55 | 15 (100) | 19 (130) |

* For typical 3/16 in.tubing, 0.187 in. (4.7 mm) o.d. and 0.028 in. (0.7mm) wall thickness.