

boway 26000

Material Designation

| | |
|-------------------|-------------|
| Boway Designation | boway 26000 |
| UNS | C26000 |
| EN | CuZn30 |
| JIS | C2600 |
| GB(China) | H70 |

Chemical Composition*

| | | |
|----|------|---|
| Cu | 70 | % |
| Zn | Rem. | % |

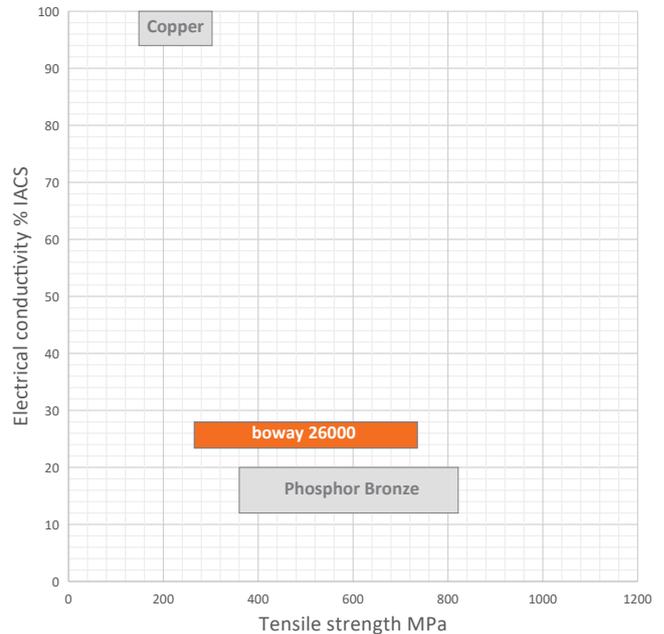
Application Target

| | |
|------------------------|-----------------|
| Signal connector | Suitable |
| Power connector | Suitable |
| Miniaturized connector | Not recommended |
| Switch/Relay | Suitable |
| Semiconductor | Not recommended |

Ideal for automotive, industrial connectors, decorative parts

Fabrication Properties

| | |
|--------------------|--------------|
| Cold forming | Very good |
| Machining | Average |
| Electroplating | Good |
| Hot dip tinning | Good |
| Laser welding | Not suitable |
| Resistance welding | Good |
| Soft soldering | Very good |



Characteristics

It has good cold working properties and good cold drawing and forming properties. It has medium strength and electrical conductivity, and lower material value. The alloy has good brazing performance. Brass strip materials have a wide range of applications, such as connectors, structural parts, decorative hardware, etc.

Physical Properties*

| | | |
|------------------------------------|-------|---------------------|
| Density | 8.82 | g/cm ³ |
| Electrical conductivity@20°C | 24 | % IACS |
| conductivity@20°C | 15 | MS/m |
| Thermal conductivity@20°C | 126 | W/(m·K) |
| Specific heat capacity | 0.377 | J/(g·K) |
| Modulus of elasticity | 110 | GPa |
| Poisson's ratio | 0.34 | |
| Coefficient of thermal expansion** | 19.7 | 10 ⁻⁶ /K |

* Typical values at room temperature for reference

** Average value between 20–300°C

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Mechanical Properties (Values Underlined Are For Reference Only)

| Temper | Tensile strength | | Yield strength | Elongation | Hardness |
|------------|------------------|--------|----------------|------------|----------------|
| | MPa | ksi | MPa | A50 % | HV0.2 |
| R270(O) | 270–350 | 39–51 | ≤ 160 | ≥ 40 | <u>55–90</u> |
| R350(1/4H) | 350–430 | 51–62 | ≥ 170 | ≥ 21 | <u>95–125</u> |
| R410(1/2H) | 410–490 | 59–71 | ≥ 260 | ≥ 9 | <u>120–150</u> |
| R480(H) | 480–560 | 69–81 | ≥ 430 | ≥ 4 | <u>150–180</u> |
| R550(EH) | 550–640 | 79–93 | ≥ 550 | - | <u>170–200</u> |
| R630(SH) | ≥ 630 | ≥ 91 | - | - | <u>≥ 190</u> |
| Annealed* | 310–420 | 45–61 | ≥ 70 | ≥ 40 | |
| H01* | 340–405 | 49–59 | ≥ 145 | ≥ 34 | |
| H02* | 395–460 | 57–67 | ≥ 290 | ≥ 19 | |
| H03* | 440–510 | 64–74 | ≥ 300 | ≥ 8 | |
| H04* | 490–560 | 71–81 | ≥ 440 | ≥ 6 | |
| H06* | 570–635 | 83–92 | ≥ 525 | ≥ 2 | |
| H08* | 625–690 | 91–100 | ≥ 550 | ≥ 1 | |
| H10* | 655–715 | 95–104 | ≥ 570 | ≥ 1 | |

*According to ASTM B888

Bendability Bending thickness ≤ 0.5 mm; Bending width: 10 mm

| Temper | 90° R/T | | 180° R/T | |
|--------|----------|---------|----------|---------|
| | Good Way | Bad Way | Good Way | Bad Way |
| R270 | 0 | 0 | 0 | 0 |
| R350 | 0 | 0 | 0 | 0 |
| R410 | 0 | 0 | 0 | 0 |
| R480 | 0 | 0 | 0 | 0 |
| R550 | 0 | 1 | 1 | 2 |
| R630 | 0.5 | 1.5 | 1.5 | 3.5 |

90° bend test according to EN ISO7438, 180° bend test according to ASTM B820, shown values might show orange-peel, however no crack.

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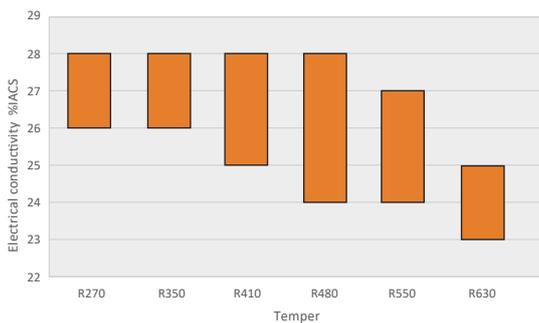
Packaging

Standard coils with outside diameters up to 1300 mm.
Traverse-wound coils with drum weights up to 500 kg.
Multiple-coil up to 3 tons.

Dimensions Available

Strip thickness 0.08–4.0mm, other gauges on request
Strip width from 8.5 mm.
Electroplated strip available.

Electrical Conductivity



Fatigue Strength

The fatigue strength is defined as the maximum bending stress amplitude which a material withstands for 10.000.000 load cycles under symmetrical alternate load without breaking. It depends on the temper selected and can be estimated typically by 1/3 of tensile strength.

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