

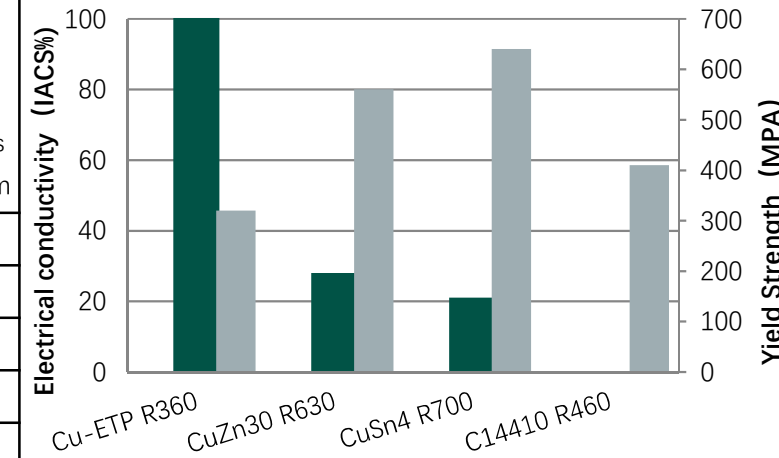
4.9 C14410 CW117C****

Application Range

Current carrying springs, blade contacts, relay boxes, busbars; very good scrap conditions of tinned scrap, advantageous price.

Physical Properties

Chemical Position (reference value) %

| Condition | Temper class | Tensile strength | Yield strength | Elongation | Hardness | Electr. conductivity | Bendability | | Bendability | | <p>Comparison of yield strength and electrical conductivity (IACS%) of selected alloys</p> <p>■ IACS(%) ■ Yield strength(Mpa)</p>  |
|-------------|--------------|----------------------------|-----------------------|------------------|-------------------------|----------------------|-----------------------------|------------------------------|---------------------------------|---------------------------------|--|
| | | T.S. min. - max. MPa | Rp 0.2 min. MPa | A50 min. % | (reference value) HV | | R/t ^{1) 2)} 90° | R/t ^{1) 2)} 180° | GW Strip thickness ≤0.5mm | BW Strip thickness ≤0.5mm | |
| Cold rolled | R250 | min. 250 | max. 140 | 20 | 60 - 85 | 44 | 0 | 0 | 0 | 0 | |
| Cold rolled | R300 | 300 - 370 | 270 | 10 | 80 - 110 | 44 | 0 | 0 | 0 | 0 | |
| Cold rolled | R360 | 360 - 430 | 310 | 7 | 110 - 130 | 44 | 0 | 0 | 0.5 | 1 | |
| Cold rolled | R420 | 420 - 490 | 370 | 5 | 120 - 150 | 44 | 1 | 1 | 2 | 2.5 | |
| Cold rolled | R460 | min. 460 | 410 | 4 | min. 135 | 44 | 1 | 1.5 | 2.5 | 3 | |

*Reference values at room temperature

**Between 20 and 300 °C

*** Values for the lowest temper class

1) $r = x \cdot t$ (strips up to $t = 0.50$ mm)

2) Sample width = 10 mm / bending at smaller bending widths on request (Evaluation according to page 5.4.2. of Hand-Out)

3) Valid only as thermal stress relieved qualities

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