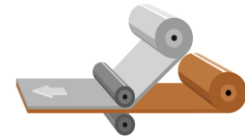


Aluminum Copper-Clad (Al-Cu)

Composite foil made of aluminum and copper.

Al-Cu is a high conductive roll-clad composite material with excellent integrity. SCHLENK can achieve thinnest thicknesses down to 10 microns, slit to individual width.



| Ratio (%) | |
|---------------|----|
| Aluminum (Al) | 50 |
| Copper (Cu) | 50 |

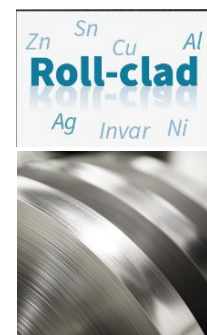
| Dimensions | |
|------------|----------------------------------|
| Thickness | 0.010 – 0.500 mm (.0004" – .02") |
| Width | 1.00 – 620 mm (.04" – 24.41") |

| Raw material | | | |
|---------------|---------------|-------------|--------------|
| Position | Material | Description | Material-No. |
| Base material | Aluminum (Al) | Al 99.5 | EN AW-1050A |
| Clad surface | Copper (Cu) | Cu-ETP | CW 004 A |

| Chemical composition (%) | | | | | | | | | |
|--------------------------|-------|-------|------|-------|--------|------|------|------|----------------|
| Aluminum | Al | Si | Fe | Cu | Mn | Mg | Zn | Ti | Other elements |
| Al 99.5 | 99.50 | 0.25 | 0.40 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.03 |
| Copper | Cu | O | P | Pb | Bi | | | | Other elements |
| Cu-ETP | 99.90 | 0.040 | - | 0.005 | 0.0005 | | | | 0.03 |

Benefits of new Al-Cu clad foil by SCHLENK:

- **Weight reduction:** despite increased cross section at equal conductivity due to reduced specific weight of Al (crucial for automotive industry)
- **Other dimensions and ratios possible:** Al-Cu clad is available in different ratios and can be slit to individual width.
- **Surface quality:** Roll-clad technology leads to
 - **Excellent mechanical bond** between the individual layers
 - **Precise layer** with tight tolerances, across entire width and length



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