INFOSHEET

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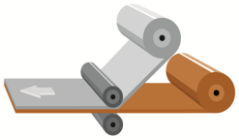
Aluminum Copper-Clad (Al-Cu)

Composite foil made of aluminum and copper.

Al-Cu is a high conductive roll-clad composite material with excellent integrity.

The Aluminum Copper-Clad foil is available in different Al-Cu ratios. SCHLENK is able to achieve thinnest thicknesses down to 35 microns and less, slit to individual width.



Ratios (%)			
Aluminum (Al)	70	50	30
Copper (Cu)	30	50	70

Dimensions	
Thickness	0.020 – 0.500 mm (.0008” – .02”)
Width	1.00 – 600 mm (.04” – 23.62”)

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)
- **Economic benefit:** Substitution of cost-intensive(copper) by lower-cost material (aluminum), combined with excellent electrical and heat conductivity of copper layer
- **Surface quality**: Roll-clad technology leads to
  - **Excellent mechanical bond** between the individual layers
  - **Precise layer** with tight tolerances, across entire width and length