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Copper C106 data sheet.

C106 is a copper that has been deoxidised with phosphorous in order to make it easier to weld and braze.

C106 has good deep drawing properties and finds uses in the following industries...

- Gas
- Refrigeration
- Building
- Chemical and engineering applications

C106 is available in tube and sheet in the following sizes

Tube:

From 1/4"OD X 20swg – 6"OD X 20swg

From 6"OD X 0.5mm – 300mmOD X 5mm

Sheet:

From 4ft x 2ft x 0.55mm – 4ft x 2ft x 3/16

From 2500mm x 1250 x 0.7mm – 2500mm x 1250mm x 6.0mm

From 2000mm x 1000mm x 0.55mm – 2000mm x 1000mm x 6mm



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Chemical & Physical Properties

Typical Chemical Composition

Elements	Min %	Max %
As		0.05
Bi		0.003
Cu	99.85	
Fe		0.003
Ni		0.1
P	0.013	0.05
Pb		0.01
Sb		0.01
Se + Te		0.02
Sn		0.01
Te		0.01

Typical mechanical properties

O= Annealed

M= as manufactured

1/2H= Cold Rolled, half hard

H= Cold Rolled, full hard

Property/unit	Condition	Min	Max
Tensile Strength (N/mm ²)	O	210	
Elongation in 50mm %	O	35	
Vickers Hardness (HV)	O		55
Tensile Strength (N/mm ²)	M	210	
Elongation in 50mm %	M	35	
Vickers Hardness (HV)	M		65
Tensile Strength	1/2H	240	



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(N/mm ²)			
Elongation in 50mm %	1/2H	10	
Vickers Hardness (HV)	1/2H	70	95
Tensile Strength (N/mm ²)	H	290	

Tolerances

Width or length tolerances:

Specified Thickness		width or length		Tolerance +/-	
Over	Up to and including	Over	Up to and including	Machined	Sawn or sheared
10mm	12.5mm	- 600m	600mm 1500mm	0.8mm 1.5mm	1.5mm 3.0mm
12.5mm	25mm	- 600mm	600mm 1500mm	1.5mm 3.0mm	3.0mm 6.0mm

Tolerances on Thickness:

Specified Thickness		Tolerances +/-		
Over	Up to and including	Over 300mm up to and including 600mm wide	Over 600mm up to and including 900mm wide	Over 900mm up to and including 1500mm wide
10mm	12.5mm	0.3mm	0.35mm	0.45mm
12.5mm	18mm	0.35mm	0.46mm	0.55mm
18mm	25mm	0.4mm	0.5mm	0.65mm

The information above is based on our current knowledge and is given in good faith; however the company will accept no liability in respect of any third party reliance thereon.