

Typical Applications

- Aerospace Components
- Defence Components
- High Technology Applications

Product Description

A high strength 3.9 to 5% Copper alloy rolled sheet, clad with 1050A, solution heat treated, cold worked and naturally aged to a substantially stable condition, to achieve T3 condition.

General Engineering Old BS - HC15TB (BS 1470)
AECMA Euronorm - None

Production Tolerances

Manufacturing limits are as stated in BS L100. For further assistance please contact our Sales Dept / Laboratory.

Cut Size to Size Guillotined Blanks

Edge deviation over cut length/width ± 0.2 mm per m (maximum thickness 6.35mm)

Surface Treatment

Anodising	Protective - Excellent Bright - Very Good Hard - Excellent Colour - Excellent
Plating	Vitreous Enamelling
Very Good	Good

Weldability

Please contact our Technical Department.

Machinability

Very Good

Corrosion Resistance

Resistance to Atmospheric Attack - Fair

Chemical Composition (weight %)

	Al	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti+Zr	Ti	Others
Min	Rem	0.50		3.9	0.40	0.20						0.05 ea (max)
Max	Rem	0.90	0.50	5.0	1.20	0.80	0.10	0.10	0.25	0.20	0.15	0.15 Total

Mechanical Properties (Minima)

Size Range (mm)	Tensile Strength (MPa)	0.2% Proof Stress (MPa)	Elongation on 50mm (%)
0.4 - 0.8	385	245	13
0.8 - 1.6	385	245	14
1.6 - 6.0	390	250	14

Technical Assistance

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

UK Service Centres:

Smiths Belfast 02895 908 897
Smiths Biggleswade 01767 604 704
Smiths Birmingham 0121 728 4940
Smiths Bristol 0117 971 2800
Smiths Chelmsford 01245 466 664
Smiths Gateshead 0191 469 5428
Smiths Horsham 01403 261 981

Smiths Leeds 0113 307 5167
Smiths Manchester 0161 794 8650
Smiths Norwich 01603 789 878
Smiths Nottingham 0115 925 4801
Smiths Redruth 01209 315 512
Smiths Verwood 01202 824 347
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Quality & Testing:



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