

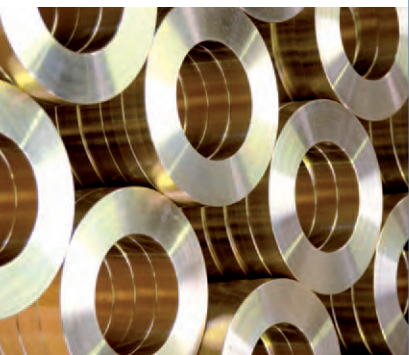
**bolton**  
**AEROSPACE**

Part of the Bolton Metals Group

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## SPECIAL HIGH TENSILE BRASSES & BRONZES



# BOLTON AEROSPACE OFFERS AN IDEAL RANGE OF PROPERTIES

## MECHANICAL PROPERTIES

Alloy	Related Specifications					Nominal Composition %							Condition	Typical Size Range (mm)	Typical Mechanical Properties					Density Approx (g/cm <sup>3</sup> )
	British	CEN	French	German	USA	Cu	Al	Fe	Pb	Mn	Sn	Zn			Rp0.2 (MPa)	Rt (MPa)	Rm (MPa)	Elongation (%)	Hardness (HB)	
HT1	CZ115	CW722R				57.5		0.6	1.25	1.1	0.7	Bal	Ext/Drawn Rolled	10-75 75-175	220-310 170-230		500-590 430-500	20-25 25-30	140-175 110-125	8.4
HT3	CZ114	CW721R				58	0.9	0.6	1.25	1.0	0.6	Bal	Ext/Drawn Rolled Forged	10-75 75-175	300-360 190-250 190-250		530-630 470-530 470-530	12-25 20-30 20-30	120-160 115-130 115-130	8.4
HT20	CZ135	CW713R		CuZn40Al2 2.0550		58.5	1.5		0.6	1.8	Si 0.5	Bal	Ext/Drawn Rolled	10-75 75-175	350-530 230-300		580-700 500-650	12-18 12-20	160-200 150-200	8.2
HT21					C67400	59	1.3		0.5 max	2.5	Si 0.7	Bal	Ext/Drawn Rolled	10-75 75-175	250-310 230-300		480-590 480-580	12-15 14-20	130-170 130-170	8.2
HT26			NF L14-708			66.5	4.8	2		3		Bal	Ext/Drawn Rolled Forged	15-75 75-175 > 175	460-540 460-540 350-450		720-800 690-770 650-750	15-20 15-20 15-20	180-220 180-220 170-210	8.0
HT30					C67300	62			0.6	2.5	Si 1.0	Bal	Ext/Drawn Rolled	10-75 75-125		310-360 180-260	450-530 380-440	20-30 25-35	130-160 100-130	8.4
HT31			UZ19A6 NF L14-707			66	7.2	2.8		5		19	Extruded Rolled Forged	15-75 75-1 > 175	600-700 560-660 560-660		830-950 780-880 780-880	10-15 10-15 10-15	245-275 245-275 245-275	8.0
HT32 X133					C67000	63.5	5.2	2.2		3		Bal	Ext/Drawn Rolled Forged	15-75 75-175 > 175		420-520 400-500 440-550	760-900 720-800 720-820	10-25 10-25 10-20	200-250 200-250 200-250	8.0
HT36					C66800	62			0.15	2.5	Si 0.7	Bal	Ext/Drawn	15-70		350-425	500-550	15-25	135-165	8.3
HT37					C67300	60.5			1	2.8	Si 1.0	Bal	Ext/Drawn Rolled	10-75 75-125		310-360 180-260	450-530 380-440	20-30 25-35	130-160 100-130	8.4
MB5					C67500	58.5		0.9		0.35	0.8	Bal	Ext/Drawn Rolled Forged	10-75 75-175		260-370 200-270 200-270	500-570 420-480 400-470	20-30 30-45 40-50	130-170 120-150 110-140	8.4

For additional technical information, please see our web site.  
Non contractual document – For information only.



### Quality

The quality of our products are well recognised within the aerospace industry.

The company holds a range of approvals with many end use customer organisations. Additionally, third party approvals have been held and upgraded over many years such that all aerospace material is produced under a system approved to ISO 9001: 2008, AS9100 Revision B Certificate No : LRQ 0902066



### Customer approvals include :

- Airbus SAS
- Boeing DMS 2201
- Augusta Westland Helicopters
- BAE Systems Military and Regional
- Hawker Beechcraft
- Messier Dowty
- Rolls Royce RR9000 Sabre
- Spirit Aero