



CHEMICAL FORMULA for COMMONLY USED CHINESE BRASS & ALUMINUM

ALUMINUM

CHINA(GB)	Specification#	No.	Chemical composition(%)														
			Si	Fe	Cu	Zn	Bi	Pb	Al	Other (Each)	Other (Total)	Mg	Cr	Mn	Ti	Ni	Sn
CHINA(GB)	Aluminum Alloy	2011	0.4	0.7	5.0~6.0	0.3	0.20~0.6	0.20~0.6	Balance	0.05	0.15						
CHINA(GB)	Aluminum Alloy	5052	0.25	0.4	0.1	0.1	~	~	~	~	~	2.2~2.8	0.15~0.35	0.1			
CHINA(GB)	Aluminum Alloy	6061	0.40-0.8	0.7	0.15-0.4	0.25			Remainder			0.8~1.2	0.04~0.35	0.15	0.15		
CHINA(GB)	Aluminum Alloy	6063	0.439	0.208	0.005	0.1				Single 0.05	Total 0.15	0.356	0.1	0.003	0.1		
CHINA(GB)	Aluminum Alloy	7075	0.40	0.50	1.2-2.0	5.1-6.1			Remainder	Single 0.05	Total 0.15	2.1-2.9	0.18-0.28	0.30	0.20		
CHINA(GB)	Casting Aluminum	A380	7.5-9.5	1.3	3.4-4.0	3						0.1		0.5		0.5	0.35
CHINA(GB)	Casting Aluminum	ZLD108	11.0~13.0	0.4	1.0~2.0	0.2			Balance			0.5~1.0		0.3~0.9	0.2	0.3	

BRASS

CHINA(GB)	Specification#	No.	Chemical composition(%)														
			Cu	Fe	Pb	Zn	Bi	Pb	Al	Ni	Others	P	Sb	Impurity	S	As	
CHINA(GB)	Brass	HPb58	57.0~60.0	≤0.5	0.8~1.9	Balance	≤0.003	0.8~1.9	≤0.2		≤1.0	≤0.02	≤0.01				
CHINA(GB)	Brass	Hpb59-1	57.0~60.0	0.5	0.8~1.9	Balance		0.8~1.9	0.2	1	1						
CHINA(GB)	Brass	H62	60.5~63.5	0.15	0.08	Balance				0.5	0.5						
CHINA(GB)	Brass	H63	62.0-65.0	≤0.15	≤0.08	Balance	≤0.002				0.5	≤0.01	≤0.005				
CHINA(GB)	Brass	C36000	60.0~63.0	0.35	2.5~3.7	Balance											
JAPAN(JIS)	Brass	C3604	57.0~61.0	0.5	1.8~3.7	Balance					Fe+Sn1.2						
CHINA(GB)	Silicon Brass	Silicon Brass	79.0-81.0	0.6	0.1	Balance				0.5	Si 2.5-4.0		1.5				
CHINA (GB)	Copper	T2	Cu + Ag99.9	0.005	0.005		0.001						0.002		0.005	0.002	

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BRONZE

CHINA(GB)	Specification#	No.	Chemical composition(%)													
			Sn	Zn	Pb	p	Ni	Cu	Al	Fe	Mn	Si				
CHINA(GB)	TIN BRONZE	ZCuSn3Zn8Pb6Ni1	2.0~4.0	6.0~9.0	4.0~7.0		0.5~1.5	balance								
CHINA(GB)	TIN BRONZE	ZCuSn3Zn11Pb4	2.0~4.0	9.0~13.0	3.0~6.0			balance								
CHINA(GB)	TIN BRONZE	ZCuSn5Pb5Zn5	4.0~6.0	4.0~6.0	4.0~6.0			balance								
CHINA(GB)	TIN BRONZE	ZCuSn10Pb1	9.0~11.5			0.5~1.0		balance								
CHINA(GB)	TIN BRONZE	ZCuSn10Pb5	9.0~11.0			4.0~6.0		balance								
CHINA(GB)	TIN BRONZE	ZCuSn10Zn2	9.0~11.0	1.0~3.0				balance								
CHINA(GB)	Aluminum Bronze	Qal	0.091	0.99	0.022	0.0158	0.48	balance	9.03	0.55	2.04	0.115				

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