

Products Guide of SEOWON Co., Ltd

< 60/40 Brass Billet >

Alloy name	Alloy No.	SW No.	Chemical Composition (%)								
			Cu	Pb	Fe	Sn	Al	Ni	Bi	Zn	Other
Free cutting Brass (Muntz Metal)	KS & JIS 3601 ASTM C36000	M410	58.4 /59.2	3.0/3.3	0.35↓	0.45↓	0.04↓	0.3↓		Bal.	
	KS & JIS 3602 ASTM C36000	M450	60.2 /61.0	3.0/3.3	0.35↓					Bal.	0.5↓
	KS & JIS 3603 ASTM C36000	M921	58.0 /58.5	2.9/3.1	0.35↓	0.5↓	0.03↓	0.4↓		Bal.	
	KS & JIS 3604 ASTM C36000	M922	57.2 /57.7	3.4/3.7	0.5↓	0.7↓	0.05↓	0.4↓		Bal.	
Muntz Metal	<i>New</i> Gold Color	M912	57.2 /57.7	3.0/3.3	0.5↓	0.7↓	0.35 /0.4	0.4↓		Bal.	
Forging Brass	KS & JIS 3712	F215	58.5 /59.0	1.9/2.2	0.3↓	0.45↓	0.02↓	0.3↓		Bal.	
	KS & JIS 3771 ASTM C37700	F217	59.0 /59.5	2.0/2.3	0.2↓	0.2↓	0.01↓	0.2↓		Bal.	
	KS & JIS 3501 ASTM C35000	F110	60.0 /63.0	0.8/2.0	0.15↓					Bal.	
Naval Brass	AS 1568 ASTM 48600	FD10	59.0 /62.0	1.0/2.5	0.3↓	0.8 /1.5	0.02↓	0.3↓		Bal.	
	BS 2872 CZ 132	FD20	Rem.	1.7/2.8	0.2↓	0.2↓				35.0 /37.0	
	ASTM C85700	FD30	62.0 /65.0	1.0/3.0	0.08↓	0.7 /1.0	0.2/0.8	1.0↓		Rem.	
Lead-Free & Naval Brass	KS D 5101X (C3604)	MD11	61.0 /62.0	0.1↓	0.2↓	0.8 /1.0	0.02↓	0.2↓		Rem.	
	(C35330, Alloy 352)	MD20	59.5 /64.0	1.5/3.5						Rem.	
	KS D 5101X (C3604)	MB20	58.0 /63.0	0.2↓	0.2↓	0.2↓			0.5/3.5	Rem.	P: 0.02/0.25
High strength Brass	KS D 5101 (C6782)	U120	56.0 /60.5	0.5↓	0.1/1.0		0.2/2.0			Rem.	Mn: 0.5/2.5
	ASTM C67600	U140	57.0 60.0	0.5/1.0	0.4/1.3	0.5/1.5				Rem.	Mn: 0.05/0.5
	ASTM C67300	U300	58.0 /63.0	0.4/3.0	0.5↓	0.3↓	0.25↓	0.25↓		Rem.	Si: 0.5/1.5 Mn: 2.0/3.5
	KS D 2320 (CACIn304)	U340	60.0 /65.0	0.2↓	2.0/4.0	0.2↓	5.0/7.5	0.5↓		Rem.	Mn: 2.5/5.0
	KS D 5101X MBA2	U350	60.0 /64.0	0.2↓	0.5↓		1.9/3.5	0.25 /0.5		Rem.	Si: 0.6/1.2 Mn: 2.5/3.5
	KS D 5101X AT-1	U360	Rem.		0.5/1.3		3.5/4.5	2.5/4.0		28.0 /33.0	Si: 0.5/1.5

< 65/35 Brass Billet/Slab >

Alloy name	Alloy No.	SW No.	Chemical Composition (%)								
			Cu	Pb	Fe	Sn	Al	Ni	Bi	Zn	Other
Yellow Brass (Billet)	KS D 5103 (C2600)	T110	68.5 /71.5	0.05↓	0.05↓					Bal.	
	KS D 5103 (C2700)	T220	63.0 /67.0	0.05↓	0.05↓					Bal.	
	KS D 5301X	T230	63.0 /65.0	0.012↓	0.012↓					Bal.	
Yellow Brass (Slab)	KS D 5201	T240	64.0 /68.0	0.05↓	0.05↓					Bal.	

< Brass Ingot >

Alloy name	Alloy No.	SW No.	Chemical Composition (%)								
			Cu	Pb	Fe	Sn	Al	Ni	Bi	Zn	Other
Brass Ingot	KS & JIS YBc3 ASTM C85700	A grade									
		B grade	58.0 /64.0	0.5 /3.0	0.8↓	1.0↓	(0.5)	(1.0)		30.0 /41.0	
		C grade									
	Lead Free	CB12	59.0 /62.0	0.03↓	0.15↓	0.6 /1.0	0.6 /0.8	0.15↓	0.6 /1.0	Bal.	
	Dezincification Resistance Brass	DR	61.0 /64.0	0.8 /1.2	0.2↓	0.2↓	0.5 /0.8	0.3↓		Bal.	
Low lead	BS15	60.0 /60.5	0.6 /0.8	0.03 /0.15	0.15↓	0.6 /0.8	0.1↓		Bal.		

< Bronze Ingot >

Alloy name	Alloy No.	SW No.	Chemical Composition (%)								
			Cu	Pb	Fe	Sn	Al	Ni	Bi	Zn	Other
Bronze Ingot	KS & JIS Bc 1 CACIn 401	BZ10	79.0 /83.0	3.0/7.0	0.35↓	2.0/4.0	0.005↓	0.8↓		8.0 /12.0	Si: 0.005↓ P: 0.03↓
	ASTM C84400	BZ12	79.0 /82.0	6.3/7.7	0.35↓	2.5/3.5	0.005↓	0.8↓		7.0 /10.0	Si: 0.005↓ P: 0.02↓
	KS & JIS Bc 2 CACIn 402	BZ20	86.0 /89.0	1.0↓	0.2↓	7.0/9.0	0.005↓	0.8↓		3.0/5.0	Si: 0.005↓ P: 0.03↓
	KS & JIS Bc 3 CACIn 403	BZ30	86.5 /89.5	1.0↓	0.2↓	9.0 /11.0	0.005↓	1.0↓		4.0 /6.0	Si: 0.005↓ P: 0.05↓
	KS & JIS Bc 6 CACIn 406	BZ60	83.0 /87.0	4.0 /6.0	0.3↓	4.0 /6.0	0.005↓	0.8↓		4.0 /6.0	Si: 0.005↓ P: 0.03↓
	KS D 2320X	BZ64	84.0 /87.0	2.0/3.0	0.3↓	4.5/6.5	0.005↓	0.8↓		4.0/6.0	
	KS & JIS Bc 7 CACIn 407	BZ70	86.0 /90.0	1.0/3.0	0.2↓	5.0/7.0	0.005↓	0.8↓		3.0 /5.0	Si: 0.005↓ P: 0.03↓
Phosphor Bronze	KS D 5506 ASTM C51900	BP10	Rem.	0.3↓	0.2↓	5.5/7.0	0.005↓	0.5↓	0.3↓		Si: 0.005↓ P: 0.03/0.35
	ASTM C53000	BP31	84.0 /88.0	0.3↓	0.2↓	12.0 /15.0	0.005↓	0.5↓	0.3↓		Si: 0.005↓ P: 0.1↓
	ASTM C54400	BP40	Rem.	3.5/4.5	0.1↓	3.5/4.5			1.5/4.5		Si: 0.005↓ P: 0.01/0.5
High-lead Tin Bronze	ASTM C93100	BL20	Rem.	4.0/6.0	0.2↓	9.0 /11.0	0.005↓	0.8/1.2		1.0↓	
	ASTM C94100	BL51	68.0 /72.0	19.0 /21.0	0.3↓	7.0/9.0	0.01↓	0.3/0.6		0.3/0.7	P: 0.05/0.2
Al Bronze	ASTM C63010	BA30	78.0↑	0.1↓	2.0/3.5	0.1↓	9.7 /10.9	4.5/5.5		0.3↓	Mn: 1.5↓
Lead-free Bronze	<i>New</i> Lead-free BZ	CZ60	83.0 87.0	0.2↓	0.3↓	4.0/6.0		0.8↓	1.0/2.0	4.0/8.0	

