

Bronze Material Standard, composition, Character

Material	AMES Reference	Chemical Composition					Density (g/cc)	Pressure K(MPa)	Oil % min.	Comparable Standards		
		Fe %	Cu %	Sn %	C %	Other %				MPIF Std/35	ISO5755/1	Others
Bronze (Low Graphite)	SC-Sn10-62	-	87.2-90.5	9.5-10.5	<0.3	2.0	6.0-6.4	131	27	CT-100-K19	P4011 Z	ASTM B438
	SC-Sn10-66	-	87.2-90.5	9.5-10.5	<0.3	2.0	6.4-6.8	179	19	CT-100-K26	P4012 Z	SINT-A50
	SC-Sn10-70	-	87.2-90.5	9.5-10.5	<0.3	2.0	6.8-7.2	255	12	CT-100-K37	P4013 Z	SINT-B50
Bronze (Medium Graphite)	SC10-Sn10-62	-	87.5-90.0	9.5-10.5	0.5-1.8	2.0	6.0-6.4	117	22	CTG-1001-K17	P4022 Z	ASTM B438
	SC10-Sn10-66	-	87.5-90.0	9.5-10.5	0.5-1.8	2.0	6.4-6.8	159	17	CTG-1001-K23	P4023 Z	SINT-A51
	SC10-Sn10-70	-	87.5-90.0	9.5-10.5	0.5-1.8	2.0	6.8-7.2	228	9	CTG-1001-K33		SINT-B51
Bronze (High Graphite)	SC40-Sn10-60	-	82.5-87.5	9.5-10.5	3.0-5.0	2.0	58-6.2	69	11	CTG-1001-K10		
	SC40-Sn10-64	-	82.5-87.5	9.5-10.5	3.0-5.0	2.0	6.2-6.6	103	4	CTG-1004-K15		
	SC40-Sn10-68	-	82.5-87.5	9.5-10.5	3.0-5.0	2.0	6.6-7.0	155	-			UNE 37.103
Bronze with Zinc and Lead	SC-Sn8-Zn5-Pb3-62	<0.5	84.0-86.0	6.5-8.5	<0.5	Zn 3.5-5.5 Pb <4.0	6.0-6.4	131	22			UNE 37.103
	SC-Sn8-Zn5-Pb3-68	<0.5	84.0-86.0	6.5-8.5	<0.5	Zn 3.5-5.5 Pb <4.0	6.4-6.8	179	17			UNE 37.103
	SC-Sn8-Zn5-Pb3-70	<0.5	84.0-86.0	6.5-8.5	<0.5	Zn 3.5-5.5 Pb <4.0	6.8-7.2	255	9			
	SC-Sn8-Zn5-Pb3-76-AP	<0.5	84.0-86.0	6.5-8.5	<0.5	Zn 3.5-5.5 Pb <4.0	7.4-7.8	342	-			
	SC-Sn5-Zn5-Pb5-62	<0.5	84.0-86.0	4.0-6.0	<0.5	Zn4.0-6.0 Pb4.0-6.0	6.0-6.4	131	22			
	SC-Sn5-Zn5-Pb5-68	<0.5	84.0-86.0	4.0-6.0	<0.5	Zn4.0-6.0 Pb4.0-6.0	6.4-6.8	179	17			
	SC-Sn5-Zn5-Pb5-70	<0.5	84.0-86.0	4.0-6.0	<0.5	Zn4.0-6.0 Pb4.0-6.0	6.8-7.2	255	9			
	SC-SN8-Zn4-62	<0.5	86.0-89.0	7.5-9.0	<0.5	Zn3.0-5.0 Pb<0.3 Ni<1.0	6.0-6.4	131	22			
	SC-SN8-Zn4-66	<0.5	86.0-89.0	7.5-9.0	<0.5	Zn3.0-5.0 Pb<0.3 Ni<1.0	6.4-6.8	179	17			
SC-SN8-Zn4-70	<0.5	86.0-89.0	7.5-9.0	<0.5	Zn3.0-5.0 Pb<0.3 Ni<1.0	6.8-7.2	255	9				
Bronze with Zinc, Lead, Graphite or S2Mo	SC40-Sn5-Zn4-Pb2-64	<0.5	82.0-85.0	4.0-6.0	3.0-5.0	Zn4.0-6.0 Pb<4.0	6.2-6.6	103	-			
	SC40-Sn5-Zn4-Pb2-68	<0.5	82.0-85.0	4.0-6.0	3.0-5.0	Zn4.0-6.0 Pb<4.0	6.6-7.0	155	-			
	SC40-Sn5-Zn4-Pb2-64	<0.5	82.0-85.0	4.0-6.0	<0.5	Zn4.0-6.0Pb<4.0S ₂ Mo<4.5	6.2-6.6	103	-			
	SC40-Sn5-Zn4-Pb2-68	<0.5	82.0-85.0	4.0-6.0	<0.5	Zn4.0-6.0Pb<4.0S ₂ Mo<4.5	6.6-7.0	155	-			

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		Fe %	Cu %	Sn %	C %	Other %				MPIF Std/35	ISO5755/1	Others
Iron	SF-58	97.7-100	-	-	<0.3	2.0	5.6-6.0	103	21	F-0000-K15	P1012 Z	SINT-A00
	SF-62	97.7-100	-	-	<0.3	2.0	6.0-6.4	158	17	F-0000-K23	P1013 Z	SINT-B00
Iron Carbon	SF05-56	97.4-99.7	-	-	0.3-0.6	2.0	5.6-6.0	138	21	F-0005-K20		
	SF05-62	97.4-99.7	-	-	0.3-0.6	2.0	6.0-6.4	193	17	F-0005-K28		
	SF08-58	97.1-99.4	-	-	0.6-0.9	2.0	5.6-6.0	138	21	F-0008-K20		
	SF08-62	97.1-99.4	-	-	0.6-0.9	2.0	6.0-6.4	221	17	F-0008-K32		
Iron Copper	SF-C3-58	93.8-98.5	1.5-3.9	-	<0.3	2.0	5.6-6.0	138	21	F-0200-K20	P2012 Z	SINT-A10
	SF-C3-62	93.8-98.5	1.5-3.9	-	<0.3	2.0	6.0-6.4	234	17	F-0200-K34	P2013 Z	SINT-B10
	SF-C10-58	87.2-90.5	9.5-10.5	-	<0.3	2.0	5.6-6.0	139	21	F-1000-K20		
	SF-C10-62	75.7-82.0	9.5-10.5	-	<0.3	2.0	6.0-6.4	276	17	F-1000-K40		
	SF-C20-58	75.7-82.0	18.0-22.0	-	<0.3	2.0	5.6-6.0	172	21	F-2000-K25		SINT-A20
	SF-C20-62	75.7-82.0	18.0-22.0	-	<0.3	2.0	6.0-6.4	276	17	F-2000-K40		SINT-B20
Iron Copper-Carbon	SF05-C3-58	93.5-98.2	1.5-3.9	-	0.3-0.6	2.0	5.6-6.0	138	21	FC-0205-K20		
	SF05-C3-62	93.5-98.2	1.5-3.9	-	0.3-0.6	2.0	6.0-6.4	241	17	FC-0205-K35		
	SF08-C3-58	93.2-97.9	1.5-3.9	-	0.6-0.9	2.0	5.6-6.0	172	21	FC-0208-K25		
	SF08-C3-62	93.2-97.9	1.5-3.9	-	0.6-0.9	2.0	6.0-6.4	276	17	FC-0208-K40		SINT-B11
	SF08-C5-58	91.1-95.4	4.0-6.0	-	0.6-0.9	2.0	5.6-6.0	241	21	FC-0508-K35		
	SF08-C5-62	91.1-95.4	4.0-6.0	-	0.6-0.9	2.0	6.0-6.4	317	17	FC-0508-K46		
	SF08-C20-58	75.1-81.4	18.0-22.0	-	0.6-0.9	2.0	5.6-6.0	303	21	FC-0208-K44		SINT-A22
	SF08-C20-62	75.1-81.4	18.0-22.0	-	0.6-0.9	2.0	6.0-6.4	317	17	FC-0208-K46		SINT-B22
Iron Bronze	SF-08-Cu36-Sn4-58	54.2-62.0	34.0-36.0	3.5-4.5	0.5-1.3	2.0	5.6-6.0	110	21	FCTG-3604-K16		
	SF-08-Cu36-Sn4-62	54.2-62.0	34.0-36.0	3.5-4.5	0.5-1.3	2.0	6.0-6.4	152	17	FCTG-3604-K22		
	SF-08-Cu36-Sn6-58	50.2-58.0	36.0-40.0	5.5-6.5	0.5-1.3	2.0	5.6-6.0	97	21	FCTG-3606-K14		
	SF-08-Cu36-Sn6-62	50.2-58.0	36.0-40.0	5.5-6.5	0.5-1.3	2.0	6.0-6.4	152	17	FCTG-3606-K22		

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		Fe %	Cu %	Sn %	C %	Other %				MPIF Std/35	ISO5755/1	Others
Bronze (Low Graphite)	SC-Sn10-62	-	87.2-90.5	9.5-10.5	<0.3	2.0	6.0-6.4	131	27	CT-100-K19	P4011 Z	ASTM B438
	SC-Sn10-66	-	87.2-90.5	9.5-10.5	<0.3	2.0	6.4-6.8	179	19	CT-100-K26	P4012 Z	SINT-A50
	SC-Sn10-70	-	87.2-90.5	9.5-10.5	<0.3	2.0	6.8-7.2	255	12	CT-100-K37	P4013 Z	SINT-B50
Bronze (Medium Graphite)	SC10-Sn10-62	-	87.5-90.0	9.5-10.5	0.5-1.8	2.0	6.0-6.4	117	22	CTG-1001-K17	P4022 Z	ASTM B438
	SC10-Sn10-66	-	87.5-90.0	9.5-10.5	0.5-1.8	2.0	6.4-6.8	159	17	CTG-1001-K23	P4023 Z	SINT-A51
	SC10-Sn10-70	-	87.5-90.0	9.5-10.5	0.5-1.8	2.0	6.8-7.2	228	9	CTG-1001-K33		SINT-B51
Bronze (High Graphite)	SC40-Sn10-60	-	82.5-87.5	9.5-10.5	3.0-5.0	2.0	5.8-6.2	69	11	CTG-1001-K10		
	SC40-Sn10-64	-	82.5-87.5	9.5-10.5	3.0-5.0	2.0	6.2-6.6	103	4	CTG-1004-K15		
	SC40-Sn10-68	-	82.5-87.5	9.5-10.5	3.0-5.0	2.0	6.6-7.0	155	-			UNE 37.103
Bronze with Zinc and Lead	SC-Sn8-Zn5-Pb3-62	<0.5	84.0-86.0	6.5-8.5	<0.5	Zn 3.5-5.5 Pb <4.0	6.0-6.4	131	22			UNE 37.103
	SC-Sn8-Zn5-Pb3-68	<0.5	84.0-86.0	6.5-8.5	<0.5	Zn 3.5-5.5 Pb <4.0	6.4-6.8	179	17			UNE 37.103
	SC-Sn8-Zn5-Pb3-70	<0.5	84.0-86.0	6.5-8.5	<0.5	Zn 3.5-5.5 Pb <4.0	6.8-7.2	255	9			
	SC-Sn8-Zn5-Pb3-76-AP	<0.5	84.0-86.0	6.5-8.5	<0.5	Zn 3.5-5.5 Pb <4.0	7.4-7.8	342	-			
	SC-Sn5-Zn5-Pb5-62	<0.5	84.0-86.0	4.0-6.0	<0.5	Zn4.0-6.0 Pb4.0-6.0	6.0-6.4	131	22			
	SC-Sn5-Zn5-Pb5-68	<0.5	84.0-86.0	4.0-6.0	<0.5	Zn4.0-6.0 Pb4.0-6.0	6.4-6.8	179	17			
	SC-Sn5-Zn5-Pb5-70	<0.5	84.0-86.0	4.0-6.0	<0.5	Zn4.0-6.0 Pb4.0-6.0	6.8-7.2	255	9			
	SC-SN8-Zn4-62	<0.5	86.0-89.0	7.5-9.0	<0.5	Zn3.0-5.0 Pb<0.3 Ni<1.0	6.0-6.4	131	22			
	SC-SN8-Zn4-66	<0.5	86.0-89.0	7.5-9.0	<0.5	Zn3.0-5.0 Pb<0.3 Ni<1.0	6.4-6.8	179	17			
SC-SN8-Zn4-70	<0.5	86.0-89.0	7.5-9.0	<0.5	Zn3.0-5.0 Pb<0.3 Ni<1.0	6.8-7.2	255	9				
Bronze with Zinc, Lead, Graphite or S2Mo	SC40-Sn5-Zn4-Pb2-64	<0.5	82.0-85.0	4.0-6.0	3.0-5.0	Zn4.0-6.0 Pb<4.0	6.2-6.6	103	-			
	SC40-Sn5-Zn4-Pb2-68	<0.5	82.0-85.0	4.0-6.0	3.0-5.0	Zn4.0-6.0 Pb<4.0	6.6-7.0	155	-			
	SC40-Sn5-Zn4-Pb2-64	<0.5	82.0-85.0	4.0-6.0	<0.5	Zn4.0-6.0Pb<4.0S ₂ Mo<4.5	6.2-6.6	103	-			
	SC40-Sn5-Zn4-Pb2-68	<0.5	82.0-85.0	4.0-6.0	<0.5	Zn4.0-6.0Pb<4.0S ₂ Mo<4.5	6.6-7.0	155	-			

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		Fe %	Cu %	Sn %	C %	Other %				MPIF Std/35	ISO5755/1	Others
Iron	SF-58	97.7-100	-	-	<0.3	2.0	5.6-6.0	103	21	F-0000-K15	P1012 Z	SINT-A00
	SF-62	97.7-100	-	-	<0.3	2.0	6.0-6.4	158	17	F-0000-K23	P1013 Z	SINT-B00
Iron Carbon	SF05-56	97.4-99.7	-	-	0.3-0.6	2.0	5.6-6.0	138	21	F-0005-K20		
	SF05-62	97.4-99.7	-	-	0.3-0.6	2.0	6.0-6.4	193	17	F-0005-K28		
	SF08-58	97.1-99.4	-	-	0.6-0.9	2.0	5.6-6.0	138	21	F-0008-K20		
	SF08-62	97.1-99.4	-	-	0.6-0.9	2.0	6.0-6.4	221	17	F-0008-K32		
Iron Copper	SF-C3-58	93.8-98.5	1.5-3.9	-	<0.3	2.0	5.6-6.0	138	21	F-0200-K20	P2012 Z	SINT-A10
	SF-C3-62	93.8-98.5	1.5-3.9	-	<0.3	2.0	6.0-6.4	234	17	F-0200-K34	P2013 Z	SINT-B10
	SF-C10-58	87.2-90.5	9.5-10.5	-	<0.3	2.0	5.6-6.0	139	21	F-1000-K20		
	SF-C10-62	75.7-82.0	9.5-10.5	-	<0.3	2.0	6.0-6.4	276	17	F-1000-K40		
	SF-C20-58	75.7-82.0	18.0-22.0	-	<0.3	2.0	5.6-6.0	172	21	F-2000-K25		SINT-A20
	SF-C20-62	75.7-82.0	18.0-22.0	-	<0.3	2.0	6.0-6.4	276	17	F-2000-K40		SINT-B20
Iron Copper-Carbon	SF05-C3-58	93.5-98.2	1.5-3.9	-	0.3-0.6	2.0	5.6-6.0	138	21	FC-0205-K20		
	SF05-C3-62	93.5-98.2	1.5-3.9	-	0.3-0.6	2.0	6.0-6.4	241	17	FC-0205-K35		
	SF08-C3-58	93.2-97.9	1.5-3.9	-	0.6-0.9	2.0	5.6-6.0	172	21	FC-0208-K25		
	SF08-C3-62	93.2-97.9	1.5-3.9	-	0.6-0.9	2.0	6.0-6.4	276	17	FC-0208-K40		SINT-B11
	SF08-C5-58	91.1-95.4	4.0-6.0	-	0.6-0.9	2.0	5.6-6.0	241	21	FC-0508-K35		
	SF08-C5-62	91.1-95.4	4.0-6.0	-	0.6-0.9	2.0	6.0-6.4	317	17	FC-0508-K46		
	SF08-C20-58	75.1-81.4	18.0-22.0	-	0.6-0.9	2.0	5.6-6.0	303	21	FC-0208-K44		SINT-A22
	SF08-C20-62	75.1-81.4	18.0-22.0	-	0.6-0.9	2.0	6.0-6.4	317	17	FC-0208-K46		SINT-B22
Iron Bronze	SF-08-Cu36-Sn4-58	54.2-62.0	34.0-36.0	3.5-4.5	0.5-1.3	2.0	5.6-6.0	110	21	FCTG-3604-K16		
	SF-08-Cu36-Sn4-62	54.2-62.0	34.0-36.0	3.5-4.5	0.5-1.3	2.0	6.0-6.4	152	17	FCTG-3604-K22		
	SF-08-Cu36-Sn6-58	50.2-58.0	36.0-40.0	5.5-6.5	0.5-1.3	2.0	5.6-6.0	97	21	FCTG-3606-K14		
	SF-08-Cu36-Sn6-62	50.2-58.0	36.0-40.0	5.5-6.5	0.5-1.3	2.0	6.0-6.4	152	17	FCTG-3606-K22		

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