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METALLURGICAL PUBLICATIONS

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Ref.	Pub.	Date	Author	Title
1	S 24	1905*	Burgess, G.K.	Radiation from platinum at high temperatures, 5¢. B. of S. Bull. Vol. 1.
2	S 38	1906*	Guthe, K.E., Austin, L.W.	Experiments on the Heusler magnetic alloys, 10¢. B. of S. Bull. Vol. 2.
3	S 78	1907	Burrows, C.W.	The best method of demagnetizing iron in magnetic testing, 15¢. B. of S. Bull. Vol. 4.
4	S 55	1907*	Waidner, C.W., Burgess, G.K.	Radiation from and melting point of palladium and platinum, 10¢. B. of S. Bull. Vol. 4.
5	S 62	1907*	Burgess, G.K.	Melting points of the iron-group elements by a new radiation method, 10¢. B. of S. Bull. Vol. 4.
6	S 99	1908	Burgess, G.K.	Methods of obtaining cooling curves, 10¢. B. of S. Bull. Vol. 5.
7	S 109	1909	Lloyd, M.G., Fisher, J.U.S.	The testing of transformer steel, 5¢. B. of S. Bull. Vol. 5.
8	S 131	1909*	Burgess, G.K.	The estimation of the temperature of copper by means of optical pyrometers, 5¢. B. of S. Bull. Vol. 6.
9	S 124	1909	Waidner, C.W., Burgess, G.K.	Platinum resistance thermometry in high temperatures, 10¢. B. of S. Bull. Vol. 6.
10	S 161	1911	Cain, J.R.	The determination of vanadium and chrome-vanadium steels, 5¢. B. of S. Bull. Vol. 7.
11	T 6	1911	Cain, J.R.	The determination of chromium and its separation from vanadium in steels, 5¢.
12	T 8	1911*	Cain, J.R., Hostetter, J.C.	A rapid method for the determination of vanadium in steels, ores, etc., based on its quantitative inclusion by the phosmolybdate precipitate, 5¢.

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13	T 11	1912*	Devries, R.P.	Comparison of five methods used to measure hardness, 5¢.
14	S 198	1913	Burgess, G.K.	A micropyrometer, 5¢. R. of S. Bull. Vol. 9.
15	T 24	1913	Cain, J.R., Tucker, F.H.	The determination of phosphorus in steels containing vanadium, 5¢.
16	T 33	1913*	Cain, J.R.	Determination of carbon in steel and iron by the barium carbonate titration method, 5¢.
17	S 205	1914	Burgess, G.K., Waltenberg, R.G.	Melting points of the refractory elements, I. Elements of atomic weight from 48 to 59, 5¢. B. of S.Bull.Vol.10.
18	S 222	1914	Burgess, G.K., Foote, P.D.	The emissivity of metals and oxides. I. Nickel oxide(NiO) in the ranges of 600 to 1300°C. 10¢. B.of S.Bull.Vol.10.
19	S 242	1914	Burgess, G.K., Waltenberg, R.G.	The emissivity of metals and oxides. II. Measurements with the microbyrometer, 5¢. B. of S. Bull. Vol. 10.
20	T 38	1914	Crowe, J.J., Rawdon, H.S., Waltenberg, R.G.	Observations on finishing temperature and properties of rail, 35¢.
21	C 31	1914		Copper wire tables, 20¢.
22		1914		Progress in the nomenclature of alloys. Trans. Am. Inst. Met. VIII, p. 96.
23	S 243	1915*	Foote, P.D.	The emissivity of metals and oxides. III. The total emissivity of platinum and the relation between total emissivity and resistivity, 5¢. B. of S. Bull. Vol.12.
24	S 249	1915*	Burgess, G.K., Foote, P.D.	The emissivity of metals and oxides. IV. Iron oxide. 5¢. B. of S. Bull. Vol. 12.

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25	S 250	1915	Burgess,G.K., Foote,P.D.	Characteristics of radiation pyrometers, 20¢. B. of S. Bull. Vol. 12.
26	S 236	1915	Burgess,G.K., Kellberg,I.N.	Electrical resistance and critical ranges of pure iron, 5¢. B. of S. Bull. Vol. 11.
27		1915	Burgess,G.K., Hadfield,R.A.	Sound ingots and rails, Trans. Am. Inst. Min. Eng., 51, p.862; Proc. Iron & Steel Inst. of Great Britain 92, No.2, p. 199.
28		1915	Burgess,G.K., Sale,P.D.	A study of the quality of platinum ware, 10¢. B. of S. Bull. Vol. 12.
29		1915	Burgess,G.K., Kellberg,I.N.	On a supposed allotropy of copper, J. Wash. Acad. 5, p.657.
30	T 53	1915	Burgess,G.K., Merica,P.D.	An investigation of fusible tin boiler plugs, 20¢. Trans. Am. Inst. Metals, 1915-21.
31		1915	Merica,P.D., Woodward,R.W.	Failure of structural brass, Trans. Am.Inst.Metals, p. 298.
32		1915	Haneman, H., Merica,P.D.	Magnetic studies of mechanical deformation in certain ferromagnetic metals and alloys, Bull. Am. Inst. Chem. Eng., p. 2371.
33	S 266	1916	Cain,J.R., Schram,E., Cleaves,H.E.	Preparation of pure iron and iron-carbon alloys, 10¢. B. of S. Bull. Vol. 13.
34	S 69	1916*	Cain,J.R., Cleaves,H.E.	Determination of carbon in steels and iron by direct combustion in oxygen at high temperatures, Jour. Wash. Acad. Sci., 4, p. 393.
35		1916		A test of a surface combustion furnace, Jour. Ind. & Eng. Chem., 8, p. 361.
36		1916	Rawdon,H.S., Cain,J.R.	Report on ladle-test steel ingots, Proc. A.S.T.M., Vol. 16, p. 129.

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37	T 60	1916*	Rawdon, H.S.	Microstructural changes accompanying the annealing of cast bronze, 10¢.
38		1916	Rawdon, H.S.	Note on the occurrence and significance of twinned crystals in electrolytic copper, Am. Inst. Met., Vol. 10, pp. 198-207.
39		1916	Burgess, G.K.	Thermometry, pyrometry and heat conductivity, Standard Handbook for Electric Engrs.
40		1916	Burgess, G.K.	Some problems in physical metallurgy at the Bureau of Standards, Jour. Frank. Inst. 182, p. 19.
41	S 280	1916	Burgess, G.K., Waltenberg, R.G.	Further experiments on the volatilization of platinum, 5¢.
42	T 61	1916	Burgess, G.K., Merica, P.D.	Some foreign specifications for railway materials; rails, wheels, axles, tires, 35¢.
43	S 272	1916	Burrows, C.W.	Correlation of the magnetic and mechanical properties of steel, 15¢. B. of S. Bull. Vol. 13.
44	T 59	1916	Karr, C.P., Rawdon, H.S.	Standard test specimen of zinc bronze (88Cu-10Sn-2Zn) 25¢.
45	T. 83	1916	Merica, P.D.	Failure of brass: II. Effect of corrosion on ductility and strength of brass, 5¢.
46	T 84	1916	Merica, P.D., Karr, C.P.	Failure of brass. III. Initial stresses produced by the "burning in" of manganese bronze, 5¢.
47		1916		Preliminary report on testing of molding sand, Trans. Am. Foundrymens Assoc. 24, p. 143.

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49	T 90	1917*	Merica, P.D.	Structure of coating on tinned sheet copper in relation to a specific case of corrosion, 5¢.
50		1917	Merica, P.D.	The embrittling action of sodium hydroxide on mild steel, Chem. Met. Eng., 16, p. 496.
51	C 66	1917		Standard samples of thermometric fixed points, 5¢.
52	T 91	1917	Burgess, G.K.	Temperature measurements in Bessemer and open-hearth practice, 5¢.
53		1917	Woodward, R.W., Hanison, T.R.	Notes on the thermocouple nichrome constantan, Chem. Met. Eng., 16, p. 647.
54	T 97	1918	Rawdon, H.S.	Some unusual features in the microstructure of wrought iron, Tr. A.I.M.M.E., 58, p. 493.
55	T 103	1918*	Rawdon, H.S.	Typical cases of the deterioration of Muntz metal by selective corrosion, Am. Inst. Metals, 11, 12, p. 148.
56		1918		Copper, Chem. Met. Eng., 18, p. 121, 192, 303, 357.
57	C 76	1918	Merica, P.D.	Aluminum and its light alloys, 20¢. Chem. Met. Eng., 19, p. 135, 200, 329, 587, 635. (C 76 now superseded by C 346, $1.10).
58	C 67	1918		Combined tables of sizes in the principal wire gages, 5¢.
59		1919	Cain, J.R., Rawdon, H.S.	Report of ladle-test ingot investigation, Appendix of Report of Com. A-1, A.S.T.M., 19, (1), p. 154.

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62	T 118	1919*	Cain, J.R., Pettijohn, E.	A critical study of the Ledebur method for determining oxygen in iron and steel, 5¢.
63	T 126	1919	Cain, J.R., Pettijohn, E.	Study of the Goutal method of determining carbon-monoxide and carbon-dioxide in steels, 5¢.
64	T 141	1919	Cain, J.R., Maxwell, L.C.	Electrolytic resistance method for determining carbon in steel, 5¢. Jour. Ind. & Eng. Chem., 11, p. 852.
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66		1919	Cain, J.R.	Determining gases in steel and the deoxidation of steel, A.I.M.M.E. Bull. 152, p. 1309. Tr. A.I.M.M.E. 62, p.209 (1920).
67	C 80	1919	Rawdon, H.S., Finn, A.N., Grossman, M.A.	Protective metallic coatings for the rust-proofing of iron and steel, 20¢. (revised 1922) Chem. Met. Eng., 20, p. 458, 530, 591.
68		1919	Rawdon, H.S.	Applications of metal radiography Yearbook, Am. Iron & Steel Inst., p. 369.
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72	S 336	1919	Merica, P.D.	A simplification of the inverse rate method for thermal analysis, 5¢. Bull. A.I.M.E. 151, 1021; B. of S. Bull. Vol. 15.
73	T 129	1919	Merica, P.D., Guervich, L.J.	Notes on graphitization of white cast iron upon annealing, 5¢. Bull. A.I.M.E. 151, p. 1063; Tr. A.I.M.M.E. 62, p. 509.
74	T 132	1919	Merica, P.D., Waltenberg, R.G., Finn, A.N.	Mechanical properties and resistance to corrosion of rolled light alloys of aluminum and magnesium with copper, nickel and manganese, 5¢. Bull. A.I.M.E. 151, p. 1051.
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76	T 135	1919	Merica, P.D., Woodward, R.W.	Behavior of wrought manganese bronze exposed to corrosion while under tensile stress, 5¢. Proc. A.S.T.M., 19 (2), p. 279.
77	S 335	1919	Scott, H.	Effect of rate of temperature change on the transformations in an alloy steel, 5¢. B. of S. Bull. Vol. 15; Bull. A.I.M.E. 146, p. 157; Tr. A.I.M.M.E. 62, p. 689 (1920).
78	S 348	1919	Scott, H., Freeman, J.R. jr.	Use of a modified Rosenhain furnace for thermal analysis, 5¢. B. of S. Bull. Vol. 15, Bull. A.I.M.E., 152, p. 1429.
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81	C 35	1919		Melting points of chemical elements and other standard temperatures, 5¢.
82		1919	Burgess,G.K.	Temperature measurements in steel furnaces, Yearbook Am. Iron & Steel Inst., p. 427.
83		1919	Burgess,G.K.	Science and the after-war perio Sci. Monthly, Feb. 1919; Jour. Wash. Acad. Sci., 9, p. 57.
84	T 109	1919	Burgess,G.K., Woodward,R.W.	Conservation of tin in bronzes, bearing metals and solders,5¢. Trans.A.I.M.M.E. 60, p. 162.
85		1919	Burgess,G.K.	Recent metallurgical work at the Bureau of Standards, Blast Furnace & Steel Plant Vol.III, (1),pp.130-131 & (2)pp.195-97.
86		1919	Gurevich,L.J., Wickers,E.	Comparative tests of Palau and Rhotanium ware as substitutes for platinum laboratory utensils,Jour.Ind.& Eng.Chem. 11, p. 570.
87		1919	Gurevich,L.J., Hromatko,J.S.	Tin fusible boiler plug manufacture and testing, Bull. A.I.M.E., 152, p. 1351.
88		1919	French,H.J.	Manufacture and properties of light wall structural tubing, Bull. A.I.M.E. 153, p.1855; Tr. A.I.M.M.E. 62, p. 303, (1920).
89		1919	Staley,H.F., Karr,C.P.	Physical properties of certain lead-zinc bronzes, Bull. A.I. M.E., 153, p. 2485.
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92		1920		The metallurgical work of the Bureau of Standards, A.S.S.T., Feb. 25, 1921, Oct. 18, 1920.
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95		1920	Burgess, G.K.	Governmental research. Trans. Roy. Can. Inst. Toronto, V, XIII, No. 1. Science Monthly, pp. 341-352.
96		1920	Burgess, G.K.	The microscope and the heat treatment of steel, Yearbook, Am. Iron & Steel Inst. p. 154-73.
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98		1920	Burgess, G.K.	Aircraft steels: discussion of Prof. Sauveur's paper, Trans. A.I.M.M.E., 62, p. 339-340.
99		1920	Woodward, R.W.	Recent developments in light aluminum alloys, Report of U.S. Advisory Committee for Aeronautics, 6, p. 35.
100		1920	Woodward, R.W.	Discussion of stresses set up by cold rolling, Proc. A.S.T.M., 20 (2), p. 38.
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104		1920	Rawdon,H.S., Jordan,L., Groesbeck,E.C.	Metallography of arc-fused steel, Chem. Met. Eng.,23, p. 277-84.
105	S 356	1920	Rawdon,H.S., Scott,H.	Notes on microstructure of iron and mild steel at high temperature, 10¢. Tr. A.I.M.M.E.,62, pp. 246-86; Chem.Met.Eng. 22, p. 787; B. of S. Bull. Vol. 15, pp. 519-528.
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112		1920	Rawdon,H.S.	Contribution to discussion of "Shattered zones in certain steel rails", A.S.T.M. 20,(2), p. 60.
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116		1920	French,H.J.	Tensile properties of boiler plate at elevated temperatures, Bull. A.I.M.E., 158, Sec. 15; Tr. A.I.M.M.E., 67, p.67 (1922).
117		1920	French,H.J.	Some applications of alloy steels in the automotive industry, A.S.M.E. Wash. Sec. March 30.
118	S 370	1920	Scott,H.	Critical ranges of some commercial nickel steels, 5¢. B. of S. Bull. Vol. 16; Bull. A.I.M.E. 158, Sec. 16; Tr. A.I.M.M.E., 67, p. 100 (1922).
119	S 395	1920	Scott,H.	The high temperature treatment of high-speed steel and its relation to secondary hardening and to red-hardness, 10¢. B. of S. Bull. Vol. 16; Tr. A.S.S.T., 1, p. 551-626.
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129		1921	Rawdon,H.S.	Some types of non-ferrous corrosion, Trans. Am. Electrochem. Soc., 39, p. 227.
130		1921	Rawdon,H.S.	Fusion welding - a new use for castings, Disc. of fusion welding. Yearbook Am. Iron & Steel Inst., p. 340-348.
131		1921	Rawdon,H.S.	Some observations on season cracking, Jour. Inst. Met., 25, p. 149.
132		1921	Rawdon,H.S.	Macroscopic examination of metals, Chem. Met. Eng., 24; p. 385-7.
133		1921	Rawdon,H.S.	Preparation of small specimens for microscopic examination, Chem. Met. Eng., 24, p. 475-6.
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141		1921	French,H.J.	Elements of the heat treatment of steel, Am. Mach., 55, p. 907, 960.
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143	T 206	1921	French,H.J., Johnson,G.W.	The effect of heat treatment upon the mechanical properties of one per cent carbon steels, 15/. Tr. A.S.S.T., 2, p. 467.

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146	T 205	1921	French, H.J.	Tensile properties of some structural alloy steels at high temperatures, 5¢. Trans. Am. Soc. Steel Treat., 11, p. 409.
147		1921	French, H.J.	Motion pictures in the physical testing laboratory, Chem. Met. Eng., 24, p. 131.
148	M 46	1921		War work of the Bureau of Standards, 70¢.
149	C 42	1921		Metallographic testing, 5¢.
150	T 203	1921	Groesbeck, E.C.	The effect of phosphorus upon the microstructure and hardness of low carbon open-hearth steels, 10¢.
151	S 405	1921	Nusbaum, C., Cheney, W.L.	Effect of rate of cooling on the magnetic and other properties of an annealed eutectoid carbon steel, 5¢. B. of S. Bull. Vol. 17.
152	T 178	1921	Burgess, G.K.	Steel rails from sink-head and ordinary rail ingots, 20¢. Chem. Met. Eng., 23, pp. 921-5, 969-75, 1017-22.
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Simplified Practice Recommendations (Department of Commerce)

R 3	Metal lath	5¢
R 17	Forged tools	5¢
R 18	Builders hardware	40¢
R 20	Steel barrels and drums	5¢
R 21	Brass lavatory and sink traps	5¢
R 23	Plow bolts	5¢
R 26	Steel re-inforcing bars	5¢
R 28	Sheet steel (revised)	5¢
R 30	Terneplate	5¢
R 35	Steel lockers	5¢
R 36	Milling cutters	
R 53	Steel spiral rods (for concrete reinforcement)	5¢
R 54	Sterling silver flat ware	5¢
R 55	Tin ware, galvanized, and Japanned ware	5¢
R 57	Wrought iron and wrought steel pipe valves and fittings	5¢
R 58	Classification of iron and steel scrap	5¢

Iron and Steel Scrap Specifications, Metals Utilization Committee, Division of Simplified Practice, Department of Commerce.

Specifications Promulgated by the Federal Specifications Board.

No.	
89	Manganese bronze ingots (for remelting)
90	Pig tin
91a	Slab zinc (spelter)
116	Phosphor-tin
117	Pig lead
118	Phosphor copper
119	Silicon copper
120	Ingot copper
126	Foundry pig iron
134	Aluminum ingot
135	Ferro-vanadium
138	Ferro-manganese
139	Ferro-chrome
140	High test gray iron castings (semi-steel)
141	Gray iron castings
142	Manganese ore
143	Ferro-molybdenum
144	Ferro-titanium
145	Ferro-silicon
162a	Pipe, welded steel, black and galvanized
170	Steel castings
171a	Ship chain
172	Bronze castings
173a	Aluminum bronze ingots (for remelting)
174	Welding wire, iron and steel
239	Heavy rust preventive compound
242	Wrought iron pipe (welded-black and galvanized)

269 Rods, welding non-ferrous for gas welding
272 Brass castings, naval and commercial
286 Brass castings to be brazed
287 Tubing, copper, seamless, and pipe, copper, seamless standard iron pipe size
290 Bronze ingots (for remelting)
293 Medium and light rust preventive compounds
306 Spelter solder (for brazing)
307 Silver solder
308 Sheet lead
313 Tin lead solder
316 Steel blooms, billets, slabs and bars for reforging, carbon and alloy
339 General specification for metals
342a Pipe, brass, seamless, iron pipe size, standard and extra strong
343 Cast iron soil pipe and fittings, coated and uncoated
347 Lap welded and seamless steel boiler tubes
349 Iron boiler tubes, lap-welded, charcoal
350 Bars, concrete reinforcement
351 Steel, structural, for bridges
352 Steel, structural, for buildings
356 Amalgam, dental alloy
363 Burglar resisting safes
369a Aluminum bronze castings
370 Manganese bronze castings
371 Nickel for remelting
372 Structural nickel steel
373 Structural steel for cars
378 Castings, iron, malleable
391 Iron bar, wrought, refined
392 Brass rods, bars, shapes, plates, sheets and strips, commercial
393 Iron or steel unions, malleable
418 Nickel for remelting
427 Brass tubing, seamless
467 Bars, copper, rods, shapes, plates, sheets and strips
468 Bars, nickel, silver, rods, shapes, plates, sheets and strips (German silver)
469 Steel, structural, for ships other than naval vessels
489 Pipe fittings, cast iron (threaded)
490 Tubes, seamless steel, for aircraft purposes
531 Zinc plates, sheets and strips
532 Wire, spring, phosphor-bronze
536 Metal, anti-friction, ingots and castings

Letter Circulars - (obtainable only through this Bureau)

33 Structure and properties of alternately deposited metals
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