

[Materials] Hardening and Hardness Test Methods

[Materials] Standard Material Sizes 1

Heat Treatment for Steel Materials

Name	Material Type (JIS)	Typical Heat Treat	Grade	Specimen Size (mm)	Typical Heat Treat	Reference
Through Hardening	100 to 1000	Full Depth	Not usually hardened	Not Specified (JIS G 5010)	Not Specified (JIS G 5010)	Standard heat treating method for an expanded austenitic steel. The heat treatment is performed by heating in an oil quenching medium to obtain a uniform hardness in depth through the specimen. Not applicable to large or complex parts, such as forgings, etc.
Case Hardening	100 to 1000	Standard (JIS G 5010)	Medium	Not Specified (JIS G 5010)	Not Specified (JIS G 5010)	Applicable to surface hardening. Heat treating method for surface hardening. Applicable to medium parts.
Induction Hardening	100 to 1000	1, 2	High	Medium (JIS G 5010)	Not Specified (JIS G 5010)	A surface hardening method that uses heat treatment medium in a quenching medium. Not applicable to large or complex parts, such as forgings, etc.
Shot Peening	100 to 1000	1, 2, 3	Low	Medium (JIS G 5010)	Not Specified (JIS G 5010)	A surface hardening method that uses heat treatment medium in a quenching medium. Not applicable to large or complex parts, such as forgings, etc.
Surface Hardening by Induction	100 to 1000	1, 2, 3	Low	Medium (JIS G 5010)	Not Specified (JIS G 5010)	A surface hardening method that uses heat treatment medium in a quenching medium. Not applicable to large or complex parts, such as forgings, etc.
Flame	100 to 1000	1, 2, 3	Low	Medium (JIS G 5010)	Not Specified (JIS G 5010)	A surface hardening method that uses heat treatment medium in a quenching medium. Not applicable to large or complex parts, such as forgings, etc.

Hardness Test Methods and Applicable Parts

Testing Method	Principle	Applicable Material Type	Feature	Reference
Rockwell Hardness	A steel ball is pressed into the surface of the specimen. The depth of penetration is measured. The hardness is determined by the depth of penetration.	Steel materials, cast materials, and non-ferrous materials.	Applicable to various materials and heat treatments. Simple to use. Not applicable to small or thin parts.	JIS G 5010
Brinell Hardness	The specimen is pressed with a spherical indenter. The diameter of the indentation is measured. The hardness is determined by the diameter of the indentation.	Steel materials, cast materials, and non-ferrous materials.	The indenter is a spherical ball. Applicable to various materials and heat treatments. Simple to use. Not applicable to small or thin parts.	JIS G 5010
Vickers Hardness	The specimen is pressed with a diamond indenter. The diagonal length of the indentation is measured. The hardness is determined by the diagonal length of the indentation.	Steel materials, cast materials, and non-ferrous materials.	The indenter is a diamond pyramid. Applicable to various materials and heat treatments. Simple to use. Not applicable to small or thin parts.	JIS G 5010
Micro Hardness	The specimen is pressed with a diamond indenter. The diagonal length of the indentation is measured. The hardness is determined by the diagonal length of the indentation.	Steel materials, cast materials, and non-ferrous materials.	The indenter is a diamond pyramid. Applicable to various materials and heat treatments. Simple to use. Not applicable to small or thin parts.	JIS G 5010

General Steel Materials

Type	Material Code	Specimen	Size	Standard Dimensions		
General Steel for General Purpose	1000	Grade 1	1	1000 x 1000 x 1000		
		Grade 2	2	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 3	3	1000 x 1000 x 1000		
			4	1000 x 1000 x 1000		
			5	1000 x 1000 x 1000		
			6	1000 x 1000 x 1000		
			7	1000 x 1000 x 1000		
			8	1000 x 1000 x 1000		
			9	1000 x 1000 x 1000		
			10	1000 x 1000 x 1000		
			11	1000 x 1000 x 1000		
			12	1000 x 1000 x 1000		
			13	1000 x 1000 x 1000		
			14	1000 x 1000 x 1000		
			15	1000 x 1000 x 1000		
			16	1000 x 1000 x 1000		
			17	1000 x 1000 x 1000		
			18	1000 x 1000 x 1000		
			19	1000 x 1000 x 1000		
			Grade 4	20	1000 x 1000 x 1000	
			General Steel for General Purpose	1000	Grade 5	21
		Grade 6			22	1000 x 1000 x 1000
General Steel for General Purpose	1000	Grade 7	23	1000 x 1000 x 1000		
		Grade 8	24	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 9	25	1000 x 1000 x 1000		
		Grade 10	26	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 11	27	1000 x 1000 x 1000		
		Grade 12	28	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 13	29	1000 x 1000 x 1000		
		Grade 14	30	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 15	31	1000 x 1000 x 1000		
		Grade 16	32	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 17	33	1000 x 1000 x 1000		
		Grade 18	34	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 19	35	1000 x 1000 x 1000		
		Grade 20	36	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 21	37	1000 x 1000 x 1000		
		Grade 22	38	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 23	39	1000 x 1000 x 1000		
		Grade 24	40	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 25	41	1000 x 1000 x 1000		
		Grade 26	42	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 27	43	1000 x 1000 x 1000		
		Grade 28	44	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 29	45	1000 x 1000 x 1000		
		Grade 30	46	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 31	47	1000 x 1000 x 1000		
		Grade 32	48	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 33	49	1000 x 1000 x 1000		
		Grade 34	50	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 35	51	1000 x 1000 x 1000		
		Grade 36	52	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 37	53	1000 x 1000 x 1000		
		Grade 38	54	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 39	55	1000 x 1000 x 1000		
		Grade 40	56	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 41	57	1000 x 1000 x 1000		
		Grade 42	58	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 43	59	1000 x 1000 x 1000		
		Grade 44	60	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 45	61	1000 x 1000 x 1000		
		Grade 46	62	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 47	63	1000 x 1000 x 1000		
		Grade 48	64	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 49	65	1000 x 1000 x 1000		
		Grade 50	66	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 51	67	1000 x 1000 x 1000		
		Grade 52	68	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 53	69	1000 x 1000 x 1000		
		Grade 54	70	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 55	71	1000 x 1000 x 1000		
		Grade 56	72	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 57	73	1000 x 1000 x 1000		
		Grade 58	74	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 59	75	1000 x 1000 x 1000		
		Grade 60	76	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 61	77	1000 x 1000 x 1000		
		Grade 62	78	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 63	79	1000 x 1000 x 1000		
		Grade 64	80	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 65	81	1000 x 1000 x 1000		
		Grade 66	82	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 67	83	1000 x 1000 x 1000		
		Grade 68	84	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 69	85	1000 x 1000 x 1000		
		Grade 70	86	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 71	87	1000 x 1000 x 1000		
		Grade 72	88	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 73	89	1000 x 1000 x 1000		
		Grade 74	90	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 75	91	1000 x 1000 x 1000		
		Grade 76	92	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 77	93	1000 x 1000 x 1000		
		Grade 78	94	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 79	95	1000 x 1000 x 1000		
		Grade 80	96	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 81	97	1000 x 1000 x 1000		
		Grade 82	98	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 83	99	1000 x 1000 x 1000		
		Grade 84	100	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 85	101	1000 x 1000 x 1000		
		Grade 86	102	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 87	103	1000 x 1000 x 1000		
		Grade 88	104	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 89	105	1000 x 1000 x 1000		
		Grade 90	106	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 91	107	1000 x 1000 x 1000		
		Grade 92	108	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 93	109	1000 x 1000 x 1000		
		Grade 94	110	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 95	111	1000 x 1000 x 1000		
		Grade 96	112	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 97	113	1000 x 1000 x 1000		
		Grade 98	114	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 99	115	1000 x 1000 x 1000		
		Grade 100	116	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 101	117	1000 x 1000 x 1000		
		Grade 102	118	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 103	119	1000 x 1000 x 1000		
		Grade 104	120	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 105	121	1000 x 1000 x 1000		
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General Steel for General Purpose	1000	Grade 107	123	1000 x 1000 x 1000		
		Grade 108	124	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 109	125	1000 x 1000 x 1000		
		Grade 110	126	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 111	127	1000 x 1000 x 1000		
		Grade 112	128	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 113	129	1000 x 1000 x 1000		
		Grade 114	130	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 115	131	1000 x 1000 x 1000		
		Grade 116	132	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 117	133	1000 x 1000 x 1000		
		Grade 118	134	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 119	135	1000 x 1000 x 1000		
		Grade 120	136	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 121	137	1000 x 1000 x 1000		
		Grade 122	138	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 123	139	1000 x 1000 x 1000		
		Grade 124	140	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 125	141	1000 x 1000 x 1000		
		Grade 126	142	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 127	143	1000 x 1000 x 1000		
		Grade 128	144	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 129	145	1000 x 1000 x 1000		
		Grade 130	146	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 131	147	1000 x 1000 x 1000		
		Grade 132	148	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 133	149	1000 x 1000 x 1000		
		Grade 134	150	1000 x 1000 x 1000		
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		Grade 136	152	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 137	153	1000 x 1000 x 1000		
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General Steel for General Purpose	1000	Grade 147	163	1000 x 1000 x 1000		
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		Grade 212	228	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 213	229	1000 x 1000 x 1000		
		Grade 214	230	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 215	231	1000 x 1000 x 1000		
		Grade 216	232	1000 x 1000 x 1000		
General Steel for General Purpose	1000	Grade 217	2			

Hardening And Hardness Test Methods Standard Material Sizes 1

Léo Pomar



Hardening And Hardness Test Methods Standard Material Sizes 1:

Material Forming Anna Carla Araujo, Arthur Cantarel, France Chabert, Adrian Korycki, Philippe Olivier, Fabrice Schmidt, 2024-05-20 These ESAFORM 2024 conference proceedings cover a wide range of topics Additive manufacturing Composites forming processes Extrusion and drawing Forging and rolling Formability of metallic materials Friction and wear in metal forming Incremental and sheet metal forming Innovative joining by forming technologies Optimization and inverse analysis in forming Machining Cutting and severe plastic deformation processes Material behavior modelling New and advanced numerical strategies for material forming Non conventional processes Polymer processing and thermomechanical properties Sustainability on material forming Keywords WAAM Technology Fused deposition Modeling FDM Fiber Composite Printers Ultrasonic Powder Atomization Finite Element Modeling FEM Laser Powder Bed Fusion L PBF Rapid Prototyping in Additive Manufacturing Directed Energy Deposition DED GTAW Droplet Deposition Deep Learning Thermoplastic Pultrusion Textile Reinforcements Thermoforming Simulation New Sustainable Materials Non Crimp Fabrics CFRP Scraps PEEK Composites Thermoplastic Sheets Flax PP Composites **The Engineering Index** ,1929 **Public Roads** ,1941

Publications of the National Bureau of Standards, 1972 Catalog United States. National Bureau of Standards, 1973

Aeronautics ,1917 *Annual Book of ASTM Standards* ASTM International, American Society for Testing and Materials, 2003 *Bulletin* American Society for Testing Materials, 1929 *Handbook of Engineering Practice of Materials and Corrosion* Jung-Chul (Thomas) Eun, 2020-09-04 This handbook is an in depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries The book covers materials corrosion welding heat treatment coating test and inspection and mechanical design and integrity A central focus is placed on industrial requirements including codes standards regulations and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage and offers readers industry tested best practices rationales and case studies *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards, 1985 **American Machinist** ,1928 **National Bureau of Standards Monograph** United States. National Bureau of Standards, 1960 *Publications - United States. National Bureau of Standards* United States. National Bureau of Standards, 1960 **Good Roads** ,1922 **Miscellaneous Publication - National Bureau of Standards** United States. National Bureau of Standards, 1934 **Elliott's Magazine** ,1922 Comprehensive Materials Processing ,2014-04-07 Comprehensive Materials Processing Thirteen Volume Set provides students and professionals with a one stop resource consolidating and enhancing the literature of the materials processing and manufacturing universe It provides authoritative analysis of all processes technologies and techniques for converting industrial materials from a raw state into finished parts or products Assisting scientists and engineers in the selection design and use of materials whether in

the lab or in industry it matches the adaptive complexity of emergent materials and processing technologies Extensive traditional article level academic discussion of core theories and applications is supplemented by applied case studies and advanced multimedia features Coverage encompasses the general categories of solidification powder deposition and deformation processing and includes discussion on plant and tool design analysis and characterization of processing techniques high temperatures studies and the influence of process scale on component characteristics and behavior Authored and reviewed by world class academic and industrial specialists in each subject field Practical tools such as integrated case studies user defined process schemata and multimedia modeling and functionality Maximizes research efficiency by collating the most important and established information in one place with integrated applets linking to relevant outside sources

Machinery Lester Gray French,1922 Engineering and Contracting ,1922 Publications of the National Bureau of Standards United States. National Bureau of Standards,1984 **Report on Materials of Construction Used in Aircraft and Aircraft Engines** Charles Frewen Jenkin,1920

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