

# Alloys

UNS	Material	Density (g/cm <sup>3</sup> )	UNS	Material	Density (g/cm <sup>3</sup> )	UNS	Material	Density (g/cm <sup>3</sup> )
<b>Aluminum &amp; Aluminum Alloys</b>			<b>Copper &amp; Copper Alloys</b>			<b>Copper &amp; Copper Alloys (cont'd)</b>		
A03190	Al 319	2.79	C10100	CDA 101 OFE	8.89	C85200	CDA 852	
A03191	Al 319.1		C10200	CDA 102 OFE	8.89	C85400	CDA 854 Leaded Yellow	8.45
A03192	Al 319.2		C10300	CDA 103	8.89	C85700	CDA 857	
A03330	Al 333		C11000	CDA 110 ETP	8.89	C86200	CDA 862	
A03331	Al 333.1	2.70	C11400	CDA 114 STP	8.91	C86300	CDA 863 Mn Bronze	7.70
A03550	Al 355	2.71	C12200	CDA 122 DHP	8.94	C86400	CDA 864	
A03552	Al 355.2	2.68	C15100	CDA 151		C87500	CDA 875	
A03561	Al 356.1		C17200	CDA 172	8.23	C90300	CDA 903 Tin Bronze	8.80
A03562	Al 356.2	2.68	C17300	CDA 173		C90500	CDA 905	8.73
A03600	Al 360		C18200	CDA 182		C90700	CDA 907	8.80
A03800	Al 380		C19400	CDA 194 HSM	8.78	C91600	CDA 916	
A03900	Al 390		C19500	CDA 195		C92200	CDA 922	8.64
A04432	Al 443.2		C22000	CDA 220 Com. Bronze	8.80	C92700	CDA 927	8.80
A05142	Al 514.2		C23000	CDA 230 Red Brass	8.75	C93200	CDA 932	8.91
A05352	Al 535.2		C26000	CDA 260 Cartridge Br.	8.53	C93700	CDA 937	8.95
A07720	Al 772.0		C26800	CDA 268 Yellow Brass	8.47	C94400	CDA 944	
A91100	Al 1100	2.71	C27200	CDA 272		C95300	CDA 953	
A91145	Al 1145		C27400	CDA 274		C95400	CDA 954 Al Bronze 9L	7.45
A92011	Al 2011	2.82	C28000	CDA 280 Muntz Metal	8.39	C95500	CDA 955	8.20
A92014	Al 2014	2.80	C31600	CDA 316 Leaded Bronze	8.83	C95800	CDA 958	8.80
A92017	Al 2017		C33000	CDA 330		C96200	CDA 962	8.94
A92024	Al 2024	2.77	C34500	CDA 345		C96400	CDA 964	8.94
	Al 2024 ALCLAD		C35300	CDA 353		C97800	CDA 978	8.86
A92036	Al 2036		C36000	CDA 360 FC Brass	8.49			
A92090	Al 2090		C36500	CDA 365		<b>Carbon &amp; Alloy Steels</b>		
A92219	Al 2219		C44300	CDA 443 Admiralty Br.	8.52	G10050	C1005	
A93003	Al 3003	2.73	C46400	CDA 464 Naval Brass	8.41	G10080	C1008	7.85
A93004	Al 3004		C48500	CDA 485 Leaded Naval	8.44	G10090	C1009	
A94043	Al 4043		C51000	CDA 510 Phos. Bronze	8.86	G10100	C1010 Mild Steel	7.87
A95005	Al 5005	2.70	C51900	CDA 519		G10150	C1015 Mild Steel	7.87
A95050	Al 5050	2.69	C52100	CDA 521		G10180	C1018 Mild Steel	7.87
A95052	Al 5052	2.68	C61000	CDA 610		G10200	C1020 Mild Steel	7.87
A95083	Al 5083	2.66	C61300	CDA 613	8.50	G10260	C1026 Mild Steel	7.87
A95086	Al 5086	2.65	C61400	CDA 614 Al Bronze D	8.45	G10350	C1035	
A95154	Al 5154	2.66	C62300	CDA 623		G10400	C1040	
A95182	Al 5182		C62400	CDA 624		G10420	C1042	
A95254	Al 5254		C62500	CDA 625		G10450	C1045	7.84
A95257	Al 5257		C63000	CDA 630 Ni Al Bronze	7.58	G10500	C1050	7.84
A95454	Al 5454	2.68	C63200	CDA 632		G10600	C1060	
A95456	Al 5456	2.66	C64200	CDA 642 Al Bronze	7.69	G10740	C1074	
A95652	Al 5652		C65100	CDA 651		G10750	C1075	
A96061	Al 6061	2.70	C65500	CDA 655 High Silicon	8.52		C1076	
A96063	Al 6063	2.70	C67300	CDA 673		G10800	C1080	
A97039	Al 7039		C67400	CDA 674		G10950	C1095	
A97050	Al 7050		C67500	CDA 675 Mn Bronze A	8.63	G11170	C1117	
A97075	Al 7075	2.80	C68700	CDA 687 Al Brass	8.33		C1117L17	
	Al 7075 ALCLAD		C70600	CDA 706 (90/10)	8.94	G11370	C1137	
A97178	Al 7178	2.82	C71000	CDA 710 (80/20)	8.94	G11410	C1141	
			C71500	CDA 715 (70/30)	8.94	G11440	C1144	
			C72200	CDA 722		G12144	C12L14	
			C75200	CDA 752		G12150	C1215	
			C83600	CDA 836	8.80		C15830	
			C83800	CDA 838		G41300	C4130	7.85
			C84400	CDA 844			C4130X	7.85
			C84500	CDA 845				

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<b>Carbon &amp; Alloy Steels (cont'd)</b>		
G41400	C4130MOD C4140 Alloy Steel	7.85
	C4140C C4140D C41L40 C41L50	
G41420	C4142	
G41500	C4150 C4330V	
G43400	C4340 Alloy Steel	7.84
	C4340A C4340B	
G52986	C52100	
G86200	C8620	
G86300	C8630	
G87400	C8740	
G93106	C9310	
K01200	A179	7.85
K01201	A192	
K01800	A516 Gr 55 A213	
K01807	A214	7.86
K02100	A516 Gr 60	7.83
K02303	A572 Gr 50	
K02400	A537 CL1	
K02401	A515 Gr 60 / A283 Gr C	7.83
K02504	A53 Gr A	7.84
K02600	A36	7.85
K02700	A516 Gr 70	7.83
K02801	A285 Gr C	7.84
K03000	A500 Gr B	
K03005	A53 Gr B	7.87
K03006	A333 Gr 6 / A106 Gr B	7.84
K03009	A350 Lf 1	
K03101	A515 G 70	7.83
K03300	A455	
K02707	A210 Gr A1	
K03501	A210 Gr C	
K03502	A181 Gr 2	
K03506	A266 CL 2	
K11430	A588 Gr A/Cor-Ten B	7.83
K11510	A242 Type1/Cor-Ten A	7.89
K11547	A213 T2	
K11572	A182 F11(1¼Cr, ½Mo)	7.86
K11597	A213 T11 A513	
K11662	A514 Gr D	
K11757	A387 F12	7.87
K11789	A387 F11	
K11804	A656 Gr 80 A694 Gr 52	
K11820	A204 Gr A	
K11856	A514 Gr A	
K12020	A204 Gr B	
K12022	A302 Gr B	
K12023	A209 T1a	
K12045	A541	
K12521	A533 Gr A	

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<b>Carbon &amp; Alloy Steels (cont'd)</b>		
K12542	A202 Gr B	
K12766	A508 Class 2	
K13050	A350 Lf 5	
K13502	A508 CL1	
K20747	A710 Gr A	
K21590	A182 F22 (2¼ Cr, 1 Mo)	7.86
K24728	A355 Gr A	
K31820	HY80	
K32018	A203 Gr E	
K32045	HY100 HY130	
K41545	A387 F5	
K42544	A182 F5a (5 Cr, 1/2 Mo)	7.78
K81340	A553 A569 A606 A610 A611	7.87
K90941	A182 F9 (9 Cr, 1 Mo)	7.67
N08705	HP HP50	
K91283	HP 9-4-30	
K92890	Nimark 250 A120 A366	
S50300	A182 F7	7.78
S50200	A387 Gr 5 Manganese Steel	
K44220	300M	
<b>Coated, Plated or Special Conditioned Steels</b>		
	Aluminized Steel	
	Chrome Plated Steel	
	Galvanized Steel	
	Terne Steel	
	Tin Plated Carbon Steel	
	Tin Plated Steel	
<b>Heat &amp; Corrosion Resistant Steels Including Stainless Steel</b>		
S13800	13-8 PH Mo	
S15500	15-5 PH	7.80
S15700	15-7 PH Mo 15B30	7.80
S17400	17-4 PH	7.80
S17700	17-7 PH	7.80
K14675	17-22A	
K23015	17-22AS 18SR	
S16100	CROLOY 16-1	
S20100	201L	7.94
S20300	203	
S30100	301	7.90
S30200	302	7.94

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<b>Heat &amp; Corrosion Resistant Steels Including Stainless Steels (cont'd)</b>		
	302 HQ	
S30300	303	7.90
	303 (P-70)	
S30323	303Se	
S30400	304	7.94
S30403	304L	7.94
S30409	304H 304 .25%B 304 1%B	
S30451	304N	
S30453	304LN	
S30800	308	8.00
S30883	308L	
S30900	309	7.98
S30908	309S	8.00
S31000	310	7.98
S31008	310S	7.98
S31009	310H	
S31600	316	7.85
S31603	316L 316LM 316LN	7.98
S31653	316LN	
S31635	316Ti	7.98
S31700	317	7.98
S31703	317L	7.98
S31725	317LM	7.98
S31753	317LN 317LNMo	7.90
S32100	321	7.90
S32900	329	7.98
N08330	330	8.03
N06333	333	8.24
S34700	347	8.03
S34800	348	
S40300	403	7.70
S40500	405 406A1 406A2 406A4	7.80
S40900	409	7.64
S41000	410	7.70
S41008	410S	
S41600	416	7.70
S41800	418	
S42000	420	7.70
S42020	420F	
S42200	422	
S43000	430	7.72
S43036	430Ti	
S43100	431	7.73
S43700	437	
S43035	439	7.64
S44002	440A	7.70
S44004	440C	7.70
S44100	441	
S44400	444	7.80
S44600	446	7.65

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	<b>Non-Metals</b>	
	ABS	
	Acetal	
	Acrylic	
	AD85 Ceramic	
	Buna-N	
	Butyl Rubber	
	Ceramic	
	Chlorobutyl	
	Clear Vinyl	
	CPVC	
	Cured Rubber	
	Delrin	
	Delrin Black	
	EPDM-42	
	EPDM-60	
	EPDM-70	.86
	EPDM-80	
	Ethylene Propylene Teropolymer	
	FRP	
	Graphitar 14	
	Graphite	1.91
	Halar	
	Hypalon®	
	Kalrez®	
	Kanthal A1	
	Kanthal D	
	Kel-F	
	Kynar	1.75
	Lexan	1.20
	Neoprene	1.40
	NORYL EN-265	
	Nylatron GS	
	Nylon	
	Nylon 66	
	Nylon 101	
	Penlon	
	Phenolic	
	Plexiglass	
	Polystyrene	
	Polyamide-Nylon	
	Polycarbonate	
	Polyetheretherketone (PEEK)	
	Polyethylene-Crosslink	
	Polyethylene-High density	.952
	Polyethylene-Low density	.923
	Polyethylene-UHMW	
	Polypropylene	.905
	Polyurethane	
	Polyvinylchloride (PVC)	1.39
	Porcelain CTD	
	PVCCL	
	Pyrex	
	Quartz	
	Roulon	
	Rubber	
	Ryton	
	Si C Ceramic	

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	<b>Non-Metals (cont'd)</b>	
	Si C Hexaloy	
	Silicon Lump	
	Silicon Rubber	
	Teflon®	2.16
	Teflon® FEP	
	Teflon® GL/F	
	Teflon® PFA	
	Teflon® PTFE	
	Tefzel	
	Ultra High Molecular Polyethylene	
	Viton®	1.81
	Viton® A	
	Viton® B	
	<b>Miscellaneous Cast Alloys</b>	
	128 Gr C	
	422	
	ABEX-SPA	
	ABEX-HC-250	
	Alloyco N-3	
F10005	Grey Cast Iron G-2 C50	
F11401	Grey Cast Iron CL20	
F12101	Grey Cast Iron G-1 CL30	
F12401	Grey Cast Iron CL35	6.97
F12801	Grey Cast Iron G-2 CL40	
F13502	Grey Cast Iron CL50	
F32800	Ductile Cast Iron 60-40-18	
F33100	Ductile Cast Iron 65-45-12	
F33101	Ductile Cast Iron 60-45-10	
	Ductile Cast Iron 70-50-05	
F33800	Ductile Cast Iron 80-55-06	
F45000	A532 CLI Type A	
F45003	A532 CLI Type D	
F45009	A532 CL3	
F43010	A571	
J91309	A128 GRC	
J02502	A218 WCA Cast Steel	
J03002	A216 WCB Cast Steel	
J42045	A217-C5	
J22000	A217-WC5	
J03000	A27 GR60-30	
J03001	A27 GR65-35	
J02501	A27 GR70-40	
J03008	B STEEL	
J91150	CA-15	7.61
J91540	CA-6NM	
J92110	CB-7Cu2	
J92200	CB-7Cu1	
J92600	CF-8	7.75
J92602	CF-20	7.75
J92700	CF-3	
J92701	CF-16F	7.75
J92710	CF-8C	7.75
J92800	CF-3M	7.75
J92900	CF-8M	7.75
J93000	CG-8M	7.75

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	<b>Miscellaneous Cast Alloys (cont'd)</b>	
J93370	CD-4MCu	7.81
J95150	CN-7M	8.00
N06040	CY40	
N02100	CZ100	
	CW2M	
N30002	CW12M	8.94
	CW6MC	
	CW7M	
S45100	F6NM	
J93005	HD	
J93403	HE	
J92603	HF	
J93503	HH	
J94204	HK40	
J94224	HK50	
J94605	HT	
	N7M	
	N12M	
	NI HARD I	
	NI HARD IV	
	NIRESIST Type 1	7.32
	NIRESIST Type 2	
	NIRESIST Type 2B	
	<b>Miscellaneous Pipe Alloys</b>	
K03006	A333 Gr 6 / A106 GrB	7.84
	A178	
	API5LX-42	
	API5LX-52	
	API5LX-60	
	API5LX-65	
	API5LX-70	
	API Gr5L (ASTM A53)	7.87
	C56	
	C75	
	C90	
	C95	
	J55	7.86
	K55	7.86
	L80	7.86
	N80	7.86
	P105	
	P110	
	Q125	
	Zeron 100	7.80

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