

UNS	Material	Density (g/cm ³)
Carbon & Alloy Steels (cont'd)		
G41400	C4130MOD C4140 Alloy Steel	7.85
	C4140C C4140D C41L40 C41L50	
G41420	C4142	
G41500	C4150 C4330V	
G43400	C4340 Alloy Steel C4340A C4340B	7.84
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	

UNS	Material	Density (g/cm ³)
Carbon & Alloy Steels (cont'd)		
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	
Coated, Plated or Special Conditioned Steels		
	Aluminized Steel	
	Chrome Plated Steel	
	Galvanized Steel	
	Terne Steel	
	Tin Plated Carbon Steel	
	Tin Plated Steel	
Heat & Corrosion Resistant Steels Including Stainless Steel		
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

UNS	Material	Density (g/cm ³)
Heat & Corrosion Resistant Steels Including Stainless Steels (cont'd)		
	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	
S31603	316 / 316L 316LM	7.98
S31653	316LN	
S31700	317	7.98
S31703	317L	7.98
S31725	317LM	7.98
S31753	317LN 317LNMo	7.90 7.98
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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UNS	Material	Density (g/cm ³)
Heat & Corrosion Resistant Steels Including Stainless Steels (cont'd)		
N08904	904L	8.00
	904LN	
S21460	XM-14 (Tenelon)	
S38100	XM-15	
S66286	A-286	7.90
S35000	AM 350	7.81
S35500	AM 355	7.91
	AM 363	
	Maraging 250; 300; 350	
Nickel Alloys		
N99645	Colmonoy 45	
N99646	Colmonoy 46	
N13100	IN 100	7.75
N06003	Nichrome 5	
N06004	Nichrome 60	8.31
N06008	Nichrome 70	
	Nimonic 105	
	Nichrome 3228	
Pure Metals		
M02XXX	Barium B10	
L01XXX	Cadmium	8.65
R2XXXX	Chromium	7.19
R30XXX	Cobalt	8.85
W6XXXX	Copper	8.89
P00020	Gold (99.95)	18.88
R02XXX	Hafnium	13.10
L04XXX	Indium	
FXXXXX	Iron	7.87
L50050	Lead	11.35
MIXXXX	Magnesium	1.74
M2XXXX	Manganese	7.21/7.44
R03XXX	Molybdenum	10.22
N02290	Nickel	8.57
R04210	Niobium	8.57
P03980	Palladium	12.02
P04995	Platinum	21.45
M3XXXX	Silicon	2.33
P07010	Silver	10.50
R05XXX	Tantalum	16.65
L13008	Tin	7.30
R07005	Tungsten	19.30
R08XXX	Vanadium	
Z15001	Zinc	7.13
Magnesium Alloys		
M10410	Magnesium AS41A	
M11311	Magnesium AZ31B	1.83
	Magnesium WE43	
	Magnesium ZC71	
M11910	Magnesium AZ91A	
M12330	Magnesium EZ33A	
M16400	Magnesium ZK40A	
M16410	Magnesium ZE41A	

UNS	Material	Density (g/cm ³)
Reactive & Refractory Metals		
	Colubium 85	
	Tantaloy "60"	
	Tantaloy "63"	
	60/Ta-40/Co	12.10
R03640	Molybdenum (TZM)	10.22
R30003	Elgiloy	8.30
R30035	MP35N	8.91
	Ti Beta 21S	
	Ti Di-Boride	
R50250	Ti Gr 1	4.52
R50400	Ti Gr 2 (cp)	4.52
R58010	Ti 3-11-13	
R50700	Ti Gr 4	
R54521	Ti 5-2.5	
R56210	Ti 6-2-1-1	
R54620	Ti 6-2-4-2	
R56401	Ti 6-4ELI	
R56260	Ti 6-2-4-6	
R56400	Ti Gr 5 (6 Al, 4 V)	4.43
R52400	Ti Gr 7	4.52
R54810	Ti 8-1-1	
	Ti Gr 9	4.52
R52250	Ti Gr 11	4.52
R53400	Ti Gr 12	4.43
	Ti 15-3-3-3	
R52402	Ti Gr 16	4.52
	Ti 25MO	
	Ti Gr 444	
	Ti Gr 450	
	Ti Gr 479	
R58640	Beta C-Ti	4.82
	HD17 Tungsten	
	KBI 40	
	KBI 41	
	Tribacor 532	
R60702	Zirconium 702	6.10
R60704	Zirconium 704	6.52
R60705	Zirconium 705	6.51
R60802	Zircalloy II	6.56
R60804	Zircalloy IV	6.56
Solders		
L50113	2.5 Sn/97 Pb/.5 Ag	
L50750	Calcium Sn Pb	
L51120	Lead (Chemical)	
L52605	Lead with 1% Sb	
L52901	Lead with 4% Sb	
L53105	Lead with 6% Sb	
L54320	5 Sn/95 Pb	11.00
	3 Sn/97 Pb (Modine Solder)	
L54520	10 Sn/90 Pb	10.90
L54710	20 Sn/80 Pb	10.20
L54821	30 Sn/70 Pb Alloy B (Sn30A)	
L54822	30 Sn/70 Pb Alloy C (Sn30B)	
L54915	40 Sn/60 Pb	9.31
L55030	50 Sn/50 Pb	8.89
	60 Sn/40 Pb	8.42
	70 Sn/30 Pb	

UNS	Material	Density (g/cm ³)
Solders (cont'd)		
	92.5 Sn/7 Pb/.5 Ag	
P07500	Silver Solder B AG1A	
P07501	Silver Solder B AG3	
P07720	Silver Solder B AG8	
	Anti-Friction Babbit	
	DZL Tin Babbit	
	Modine	
	Lead Babbit	
	Tin Babbit	
	ZAMAK 3	
	ZAMAK 5	
Tool Steels		
T11302	M2	8.16
T11304	M4	
	M35-1	
T11342	M42	
T11350	M50	
	M509	
T12001	T1	8.67
T20811	H11	7.75
T20812	H12	
T20813	H13	7.79
T20821	H21	
T30102	A2	7.86
T30106	A6	
T30110	A10	
T30402	D2	7.76
T30404	D4	
T30407	D7	
T31501	O1	
T31502	O2	
T31506	O6	
T41901	S1	
T41905	S5	
T41906	S6	
T41907	S7	
T51620	P20	
T61206	L6	7.86
T72301	W1	
	CPM10V	
	AZ	
	CRB-7	
T20813	H13	7.79
	M73	
	Silicon Corbide	
	KZ-84 Carbide	
	KZ-94 Carbide	
	Titanium Carbide	
	Tungsten-Carbide C-2	14.85
	Tungsten-Carbide 6% NI	
	Tungsten-Carbide 8% CO	
	Tungsten 2% TH	

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UNS	Material	Density (g/cm ³)
	Non-Metals	
	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	
	Polyetheretherkeytone (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	

UNS	Material	Density (g/cm ³)
	Non-Metals (cont'd)	
	Si C Hexaloy	
	Silicon Lump	
	Silicon Rubber	
	Teflon®	2.16
	Teflon® FEP	2.15
	Teflon® GL/F	
	Teflon® PFA	2.15
	Teflon® PTFE	2.16
	Tefzel	
	Ultra High Molecular Polyethylene	
	Viton®	1.81
	Viton® A	
	Viton® B	
	Miscellaneous Cast Alloys	
	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	
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
J93370	CD-4MCu	7.81

UNS	Material	Density (g/cm ³)
	Miscellaneous Cast Alloys (cont'd)	
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	
	Miscellaneous Pipe Alloys	
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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