Material Table-Metal

PARTS	ASME	GOST	DIN/EN	Cr	Ni	Mo	Ti	Temp. Range
Casting	A216 WCB	25Л, 30Л	GS-20 Mn 5	0.5	0.5	0.2	-	-29~425
	A216 WCC		G20Mn5	0.5	0.5	0.2	-	-29~425
	A217 WC1	20ГЛ		0.35	0.5	0.45~0.65	-	≤455
	A217 WC5			0.5~0.9	0.6~1	0.9~1.2	-	≤565
	A217 WC6	20ХМЛ	GS 17CrMo55	1~1.5	-	0.45~0.65	-	≤595
	A217 WC9	20Х2М1Л ТУ		2~2.75	-	0.9~1.2	-	≤595
	A217 C5	20Х5МЛ		4~6.5	-	0.45~0.65	-	≤650
	A217 C12	20Х8ВЛ		8~10	-	0.9~1.2	-	≤650
	A296 CA15	15Х13Л, 1Х13	1.4006, 1.4008	11.5~14	1	0.5	-	-20~480
	A351 CF8	10Х18Н9Л	G-X5CrNi18-10	18~21	8~11	0.05	-	≤458(540)
	A351 CF8M	12Х18Н12М3ТЛ	X5CrNiMo18-10	18~21	9~13	2~3	-	≤425(540)
	A351 CF3	03Х17Н14М3	X2CrNiMo18-10	17~21	8~12	0.5	-	≤425
	A351 CF3M	15Х18Н10Г2С2М2Л	G X10CrNiMo18-9	17~21	9~13	2~3	-	≤455
	Aisi 321	12Х18Н10Т	X10CrNiTi18-9, 1.4541	17~19	9~12	-	0.5	≤700/540
	Aisi 904L	06ХН28МДТ	X1NiCrMoCuN25-20-6, 1.4539	19~21	24~26	-	-	-165~600
	Aisi 316Ti	03Х17Н14М3, 10Х17Н13М2Т	X6CrNiMoTi17-12-2	16~18	10~14	-	0.7	-165~600
	Aisi 310S	20Х23Н18	X8CrNi25-21, 1.4845	24~26	19~22	-	-	≤850
	A352 LCB	20ГМЛ		-	-	-	-	-46~345
	A352 LCC	09Г2С		-	-	-	-	-46~345
	A352 LC1		G20Mo5, 1.5419	-	-	-	-	-59~345
	A352 LC2			-	2~3	-	-	-73~200
	A352 LC3			-	3~4	-	-	-101~200
Forging	A105(N)	Ст.20	C21, 1.0432, St35.8	0.3	0.4	0.12	-	≤450
	A350 LF1	09Г2С		-	-	-	-	-46~425
	A350 LF2	16ГС		-	-	-	-	-60
	A350 LF3	13Н5А	10Ni14, 1.5637	-	3.25~3.75	-	-	-101~345
	A516 Gr70	09Г2С	1.0539, 1.0545	-	-	-	-	-46~425
	A182 F304	08Х18Н10	17440, 1.4301	18~20	8~11	-	-	≤800/540
	A182 F321	08Х18Н10	X10CrNiTi18-9, 1.4541	17~21	9~12	-	0.7	≤800/540
	A182 F316	03Х17Н10М2	17440, 1.4401	16~18	10~14	2~3	-	800/540
	A182 F316L	03Х17Н14М3	17440, 1.4404	16~18	10~15	2~3	-	≤450
	A182 F304L	03Х18Н11	17440, 1.4306	18~20	8~13	-	-	≤425
	A182 F310	10Х23Н18ТУ		24~26	19~22	-	-	-29~800
	Duplex 2205	03Х22Н6М2	X2CrNiMoN22-5-3, 1.4462	21~24	4.5~6.5	2.5~3.5	-	≤450
	Duplex 2304	03Х23Н6	X2CrNiN23-4, 1.4362	21.5~24.5	3~5.5	0.05~0.6	-	≤425
	Duplex 2507	02Х25Н7М3, 02Х25Н7М4	X2CrNiMoN25-7-4, 1.4410	24~26	6~8	3~5	-	-40~315
	A182 F51	02Х22Н5М3	X 2 CrNiMoN 22-5-3, 1.4462	21~23	4.5~6.5	2.5~3.5	-	-40~315
	A182 Fl	15М/16ГМ	15Mo3, 1.5415	-	-	0.44~0.65	-	≤470
	A182 F2	12ХМ, 15ХМ, 15ХМ-Ш	1.7335, 1.7337	0.5~0.81	-	0.44~0.65	-	≤540
	A182 F11	15ХМ	13CrMo4-4, 1.7335	1~1.5	-	0.44~0.65	-	≤545
	A182 F22	10Х2М1А	10CrMo9-10, 1.7380	-	0.87~1.13	-	-	≤550
	A182 Fl2	12ХМ	13CrMo4-5, 1.7335	0.8~1.25	-	0.44~0.65	-	≤545
	A182 F9	13Х9М	X12CrMo 9-1, 1.7386	8~10	-	0.9~1.1	-	≤673
	A182 F91	10Х9МФБ, 10Х9МФБ-Ш	1.4903, 1.7332	8~9.5	0.4	0.85~1.05	-	≤673
	A182 F5	15Х5М		4~6.5	0.5	0.44~0.65	-	≤550
Rod	A182 F6a	12Х13	X10Cr13	11.5~13.5	0.5	-	-	-101~480
	A182 F44		X1CRNiMoCuN20-18-7, 1.4547	19.5~20.5	17.5~18.5	6~6.5	-	≤540
	Aisi 410	12Х13	X12CrN13, 1.4006	11.5~13.5	0.6	-	-	
	Aisi 416	20Х13	X20Cr13	12~14	-	-	-	-38~350
	Aisi 420	20Х13	X20Cr13	12~14	-	-	-	-101~480
	Aisi 430	12Х17	X6Cr17	16~18	-	-	-	
	Aisi 431	14Х17Н2	Z15CN16-02, 1.4057	16~18	1.5~2.5	-	0.2	-38~425
	A276 XM-19	NAS XM-19	GX4CrNiMnN22-12-5, 1.3964	20.5~23.5	11.5~13.5	1.5~3	-	≤550
Fasteners	A193 B7			0.75~1.2	-	0.15~0.25	-	-45.6~510
	A193 B7M			0.75~1.2	-	0.15~0.25	-	-20~510
	A193 B16			0.8~1.15	-	0.5~0.65	-	-10~600
	A320 L7			0.8~1	-	0.15~0.25	-	-101-550
	A320 B8			18~20	8~10.5	-	-	254~700
	A320 B8A			18~20	8~10.5	-	-	254~700
	A320 B8M			16~18	10~14	-	-	254~816
	A320 B8T			17~19	9~12	2~3	-	196~700
	A194 2H			-	-	-	-	-38~450
	A194 6			11.5~13.5	-	-	-	-101~480
	A194 8, 8A			8~10.5	18~20	-	-	-254~800
	A194 8M, 8MA			16~18	10~14	2~3	-	-254~816
	A194 8T, 8TA			17~19	9~12	-	0.3~0.6	-196~700
Surfacing welding	D507Mo			10~16	6	2.5	-	≤450
	Alloy 20			19~21	32~38	2~3	-	≤427
	Alloy 904L			19~23	23~28	4~5	-	≤700
	Uranus B-6			20.5	25.5	4.5	-	≤700
	Lewmet 25			29	-	4.5	-	≤700
	Stellite Alloy 6			27~32	3	1	-	≤700
	Inconel Alloy 625			20~23	58	8~10	0.4	≤700
	Hastelloy Alloy C-276			15.5	-	16	-	≤700