

Reference Values for Chemical Composition for Various Materials

Profile	Material	C	Si	Mn	P≤	S≤	Cr	Mo	Ni	V	W	Al	Ti	Be	Cu	Co	Fe	Nb
Standard Material	60Si2MnA	0.56-0.64	1.6-2	0.7-1	0.025	0.025	≤0.35		≤0.35									
	50CrV4	0.46-0.54	0.17-0.37	0.5-0.8	0.025	0.025	0.8-1		≤0.35	0.1-0.2								
Corrosion Resistant	SUS301	0.15	1	2	0.045	0.03	16-18		6-8				N≤0.1					
	SUS304	0.08	1	2	0.045	0.03	18-20		8-11									
	SUS316	0.08	1	2	0.045	0.03	16-18	2-3	10-14									
	17-4PH	≤0.07	≤1.0	≤1.0	0.04	0.03	15-17.5		3.0-5.0						3.0-5.0			0.15-0.45
	17-7PH	≤0.09	≤1.0	≤1.0	0.04	0.03	16-18		6.5-7.75			0.75-1.5						
	15-7PH	≤0.09	≤1.0	≤1.0	0.04	0.03	14-16		6.5-7.75			0.75-1.5						
Thermally Stable	30W4CrVA	0.26-0.34	0.17-0.37	≤0.4	0.025	0.025	2-2.5		≤0.35	0.5-0.8	4.0-4.5							
	H13	0.32-0.45	0.8-1.2	0.2-0.5	0.03	0.03	4.75-5.5	1.1-1.75		0.8-1.2								
	X22CrMoV12 1	0.22	0.30	0.50	0.55	0.035	12	1.0	0.50	0.30								
Anti-magnetic	CuBe2													1.95	Rest			
High Temperature	Inconel 718	≤0.08	≤0.35	≤0.35	0.015	0.015	17-21	2.8-3.3	50-55			0.2-0.8	0.65-1.15		≤0.3	≤1		4.75-5.5
	Inconel 750	≤0.08	≤0.5	≤1	0.015	0.01	14-17		≥70			0.4-1	2.25-2.75		≤0.5	≤1	5-9	0.7-1.2
	Nimonic 90	0.13	0.8	0.4	0.02	0.015	15-21		Rest			1-2	2-3		0.2	18-21	1.5	B0.02 Zr 0.15