

MATERIAL	Germany		U.S.A.	CHEMICAL COMPOSITION																		
	Din.	Werkestoff		AISI	C		SI		Mn		Ni		Cr		Mo		S		P		Others	
					Specn - No.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	GS45	1.0443	1020	0.15	0.25	0.20	0.60	0.30	0.60	Traces		Traces		Traces		-	0.04	-	0.04	-	-	
Carbon Steels	GS52	1.0551	1030	0.25	0.35	0.20	0.60	0.70	1.00	Traces		Traces		Traces		-	0.04	-	0.04	-	-	
	GS60	1.0553	1040	0.35	0.45	0.20	0.60	0.70	1.00	Traces		Traces		Traces		-	0.04	-	0.04	-	-	
Case Hardening - Mo Steel	21NiCrMo2	1.6523	8620	0.15	0.25	0.20	0.80	0.65	0.95	0.40	0.70	0.40	0.70	0.15	0.25	-	0.04	-	0.04	-	-	
Case Hardening Carbon steel	CK15	1.1141	1016	0.10	0.18	0.20	0.60	0.60	1.00	-	0.40	-	0.30	-	0.10	-	0.04	-	0.04	-	-	
Mo Steel	GS42CrMo4	1.7225	4140	0.35	0.45	0.20	0.80	0.70	1.00	-	-	0.80	1.10	0.15	0.25	-	0.04	-	0.04	-	-	
Mo Steel	40NiCrMo6	1.6565	4340	0.35	0.45	0.20	0.80	0.70	1.00	1.65	2.00	0.70	0.90	0.20	0.30	-	0.04	-	0.04	-	-	
	120Cr5	1.2059	52100	0.95	1.10	0.20	0.80	0.25	0.55	-	-	1.30	1.60	-	-	-	0.04	-	0.04	-	-	
Abrasion Resistant Steel	60CrMo4	1.7229	4161	0.55	0.65	0.30	0.80	0.50	1.00	-	0.40	0.80	1.50	0.20	0.40	-	0.04	-	0.04	-	-	
Mo Steel			4130	0.25	0.35	0.20	0.80	0.70	1.00	-	-	0.80	1.10	0.15	0.25	-	0.04	-	0.04	-	-	
			303	-	0.16	-	2.00	-	2.00	9.00	11.00	18.00	21.00	-	-	-	0.04	-	0.04	-	-	
	GX10CrNi 18.8	1.4312	304	-	0.08	-	2.00	-	1.50	8.00	11.00	18.00	21.00	-	-	-	0.04	-	0.04	-	-	
Austenitic	GX2CrNi 19.11	1.4306	304 L	-	0.03	-	2.00	-	1.50	8.00	11.00	17.00	21.00	-	-	-	0.04	-	0.04	-	-	
Stainless Steel	GX6CrNiMo 18.10	1.4408	316	-	0.08	-	2.00	-	1.50	9.00	12.00	18.00	21.00	2.00	3.00	-	0.04	-	0.04	-	-	
	GX2CrNiMo171132	1.4404	316 L	-	0.03	-	1.50	-	1.50	9.00	12.00	18.00	21.00	2.00	3.00	-	0.04	-	0.04	-	-	
			ALLO Y20	-	0.07	-	1.50	-	1.50	27.50	30.50	19.00	22.00	2.00	3.00	-	0.04	-	0.04	-	Cu:3.00-4.00	
Heat Resistant	GX35CrNiSi 25.12	1.4837	309	0.04	0.20	-	2.00	-	1.50	12.00	15.00	22.00	26.00	-	0.50	-	0.04	-	0.04	-	-	
Stainless Steels	NiCr25.20	1.4843	310	0.04	0.20	-	1.75	-	2.00	19.00	22.00	23.00	27.00	-	0.50	-	0.04	-	0.04	-	-	
	GX11Cr14	1.4008	410	-	0.15	-	1.00	-	1.00	-	1.00	11.50	13.50	-	0.50	-	0.04	-	0.04	-	-	
Martensitic	GX22Cr14		420	0.20	0.30	0.20	1.20	0.20	1.00	-	1.00	11.50	13.50	-	-	-	0.04	-	0.04	-	-	
Stainless Steels	GX22CrNi17	1.4059	431	0.09	0.20	-	1.00	-	1.00	1.25	2.50	15.00	17.00	-	-	-	0.04	-	0.04	-	-	
			440 C	0.95	1.20	-	1.00	-	1.00	-	1.00	16.00	18.00	-	-	-	0.04	-	0.04	-	-	
Precipitation Hardening Steel 17			630	-	0.07	-	1.00	-	1.00	3.00	4.00	15.00	17.00	-	-	-	0.04	-		-	Cu: 2.30-4.00 Cb: 0.15-0.45	