Steel designation		% by mass [a]									
Name	Number	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Others
Special grades (Precipitation hardening steels)											
X1CrNiMoAlTi12-9-2	1.4530	0,015	0,10	0,10	0,010	0,005	11,5 to 12,5	8,5 to 9,5	1,85 to 2,15	-	N: 0,010 Al: 0,60 to 0,80 Ti: 0,28 to 0,37
X1CrNiMoAlTi12-10-2	1.4596	0,015	0,10	0,10	0,010	0,005	11,5 to 12,5	9,2 to 10,2	1,85 to 2,15	-	N ≤ 0,020 Al: 0,80 to 1,10 Ti: 0,28 to 0,40
X1CrNiMoAlTi12-11-2	1.4612	0,015	0,10	0,10	0,010	0,005	11,0 to 12,5	10,2 to 11,3	1,75 to 2,25	-	N ≤ 0,010 Al: 1,35 to 1,75 Ti: 0,20 to 0,50
X5NiCrTiMoVB25-15-2	1.4606	0,08	1,00	1,00 to 2,00	0,025	0,015	13,0 to 16,0	24,0 to 27,0	1,00 to 1,50	-	Al ≤ 0,35 B: 0,0010 to 0,010 Ti: 1,90 to 2,30 V: 0,10 to 0,50
Elements not quoted ("-") or not listed in this table shall not be intentionally added to the steel without the agreement of the purchaser except for finishing the cast. All precautions shall be taken to avoid the addition of such elements from scrap and other materials used in production which would impair mechanical properties and the suitability of the steel.											

[a] Maximum values unless indicated otherwise.

[b] Particular ranges of sulfur content may provide improvement of particular properties. For machinability a controlled sulfur content of 0,015 % to 0,030 % is recommended and permitted. For weldability, a controlled sulfur content of 0,008 % to 0,030 % is recommended and permitted. For polishability, a controlled sulfur content of 0,015 % max. is recommended.

[c] Tighter carbon ranges may be agreed at the time of enquiry and order.

[d] For better cold deformability, the upper limit may be increased to 8,3 %.

[e] For increased mechanical properties, nitrogen may be added up to 0,20 %.