Steel designation		% by mass [a]										
Name	Number	C	Si	Mn	P	S	Cr	Ni	Mo	N	Ti	Others
X2CrMoTiS18-2	1.4523	0,030	1,00	0,50	0,040	0,15 to 0,35	17,5 to 19,0	-	2,00 to 2,50	-	[4 × (C + N) + 0,15] to 0,80 [c]	(C + N) ≤ 0,040
X6CrMoS19-2	1.4114	0,08	1,00	2,50	0,040	0,15 to 0,35	17,5 to 19,5	0,75	1,50 to 2,50	-	-	-

Elements not quoted ("-") or not listed in this table may not be intentionally added to the steel without the agreement of the purchaser except for finishing the cast. All appropriate 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] Stabilization may be by use of titanium and/or niobium and/or zirconium. According to the atomic mass of these elements and the content of carbon and nitrogen, the equivalence shall be the following: Nb (% by mass) ≡ Zr (% by mass) ≡ 7/4 Ti (% by mass).

* Patented steel grade.