Steel designation		% by mass [a]										
Name	Number	C	Si	Mn	P	S	Cr	Ni	Mo	N	Cu	Others
X1NiCrMoCu31-27-4	1.4563	0,020	0,70	2,00	0,030	0,010	26,0 to 28,0	30,0 to 32,0	3,00 to 4,0	0,10	0,70 to 1,50	-

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 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] Where for special reasons, e.g. hot workability for the fabrication of seamless tubes where it is necessary to minimize the delta ferrite content, or with the aim of low magnetic permeability, the maximum Ni content may be increased by the following amounts:
0,50 % (by mass): 1.4571
1,00 % (by mass): 1.4306, 1.4406, 1.4429, 1.4436, 1.4438, 1.4541, 1.4550
1,50 % (by mass): 1.4404.

* Patented steel grade.