

ISO 3506-2:2020

Grade	Chemical composition limit %												Notes	
	C max.	Si max.	Mn max.	P max.	S max.	Cr		Mo		Ni		Cu max.		N
						min.	max.	min.	max.	min.	max.			
A2	0.10	1	2	0.050	0.03	15.0	20.0	a		8	19	4	b	c
A4	0.08	1	2	0.045	0.03	16.0	18.5	2	3	10	15	4	b	d

(a) Molybdenum may be present at the discretion of the manufacturer. However, if for some applications limiting of the molybdenum content is essential, this shall be stated at the time of order by the purchaser.

(b) Stainless steels having a maximum carbon content of 0.03%, nitrogen may be present but shall not exceed 0.22%.

(c) If the chromium content is below 17%, the minimum nickel content should be 12%.

(d) At the discretion of the manufacturer the carbon content may be higher as necessary in order to obtain the specified mechanical properties for larger diameters, but shall not exceed 0.12%.

Mechanical properties

Grade	Style 1 and style 2		Style 0	
	Property class	Stress under proof load MPa	Property class	Stress under proof load MPa
A2	70	700	035	350
A4	70	700	035	350
	80	800	040	400

