

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	Property class	Tensile strength MPa min.	Stress at 0.2%	Elongation after fracture mm min.
			non-proportional elongation MPa min.	
A2	70	700	450	0.4D
A4	70	700	450	0.4D
	80	800	600	0.3D

(D) Nominal thread diameter, mm

