

	Austenitic stainless steel	Page 1(1)
	Mekava 1.4401	Approved: T.S.
21.11.2019		

Chromium, nickel and molybdenum alloyed austenitic stainless steel. The grade owns a good general corrosion resistance, also in acids and chlorides, e.g. sea water.

Chemical composition

	C %	Si %	Mn%	P %	S %	Cr %	Ni %	Mo %	N %
min.						16,50	10,00	2,00	
max.	0,07	1,00	2,00	0,045	0,035	18,50	13,00	2,50	0,10

Mechanical properties

Condition	Yield strength $R_{p0,2}$ MPa, min.	Tensile strength R_m MPa, min.	Elongation A_5 %, min.	Impact strength KV ₂ +20 °C J, min.
Cast, solution annealed Max. 150 mm	205	485	30	60

Weldability

The weldability of Mekava 1.4401 is good in room temperature. Filler material for instance OK 63.30 or 63.41 (rod welding), OK Autrod 16.32 (MIG/MAG welding). After welding a solution annealing is recommended.

Information about corrosion resistance

Mekava 1.4401 is a typical material used in pumps of chemical and wood processing industry. The grade owns a good pitting resistance caused by chlorides and sea water.

Related standards

EN 10088-3:2005	ASTM A351
GX5CrNiMo17-12-2, nro 1.4401	Grade CF8M