



431

(UNS43100) W. Nr. 1.4057

Chemical composition	C	Mn	Si	P	S	Cr	Ni
% Present (Max)	0.20	1.00	1.00	0.04	0.03	15.0-17.0	1.25-2.50

Alloy 431 is a hardenable martensitic stainless steel alloy which has a combination of high tensile and torsional strength - this makes it well suited to shaft manufacture. The alloy is intended for use in applications requiring good strength and toughness combined with reasonable corrosion resistance. As the alloy offers considerable resistance to saltwater corrosion, it is used widely in marine equipment and systems. Alloy 431 is easily machined in the annealed state but welding is difficult due to cracking and it is recommended that the material is preheated to improve welding performance.

Note: Values are in accordance with EN 10088 specifications. Actual mill certs available upon request.

