

STAINLESS STEEL 316

Chemical Composition			Mechanical Properties		Applications
Element	Min	Max			
			Tensile Strength	500-700 Mpa	Food Processing Equipment: Beer brewing, Milk and Cutlery
C		0.07	0.2% Yield Strength	200-240 Mpa	Petrochemical, Chemical and Pharmaceutical Equipment
Si		1.00	Elongation	40%	coastal Architectural panelling
Mn		2.00	Hardness	215 HB	Medical Implants
P		0.05			Heat Exchangers
S		0.02			Sinks and Sanitaryware
Cr	19.50	18.50	AMS 5648	ASTM A240	Fasteners and Springs
Ni	10.00	13.00	AMS 5524	ASTM A276	
Mo	2.00	2.50	AMS 5573	ASTM A167	Characteristics
Fe	BAL	BAL	AMS 5584	ASTM A479	High strength and good machinability
			AMS 5649	ASTM A666	Excellent corrosion resistance
			AMS-S-7720	ASTM F138	Excellent Weldability